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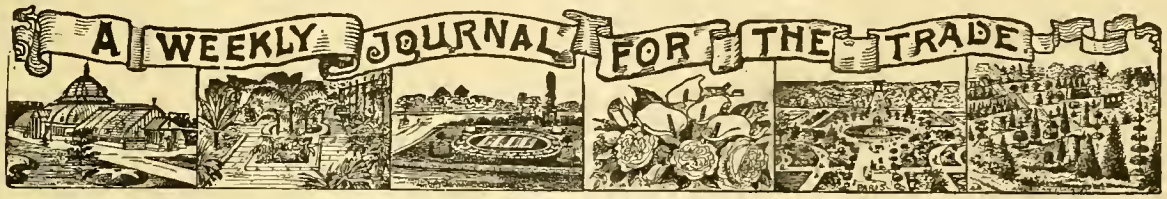


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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas.

Vol. IX. *CHICAGO AND NEW YORK, FEBRUARY 15, 1894.* *No. 298*

THE AMERICAN FLORIST

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OWING to absence from home Mr. Scott was unable to contribute his usual batch of seasonable hints for this issue.

LEBANON, PA.—R. W. Wynings has succeeded the firm of Wynings & Dace, remodeling their establishment and adding five new houses.

TRENTON, N. J.—Umpleby & Son have added three new houses 150x18 and have opened a store opposite the postoffice. The cut flower trade has been very good here so far this season.

MT. HOLLY, N. J.—Chas. B. Hornor, proprietor of the Evergreen Avenue Nurseries, has lately admitted to his business his son, Harold Hornor, and the firm will be known in future as Chas. B. Hornor & Son.

LEXINGTON, KY.—Mrs. D. Honaker is building a new range of houses containing 10,000 feet of glass. This added to the 12,000 feet erected last season gives a total of 22,000 feet of glass in this establishment.

Greenhouse Construction.

Mr. W. A. Burnham of the Lord & Burnham Co. delivered a lecture before the Massachusetts Horticultural Society on Saturday, Feb. 10, his subject being "Greenhouse construction." He said that greenhouse building as a business of any dimensions of interest in this country dates back only to the close of the civil war. During this time the evolution in greenhouse architecture and construction had been remarkable, and probably in no branch of building in this country has greater progress been made. He estimated that the total amount of money invested in glass houses, including both commercial and private establishments, is no less than $285,000,000. The progress which had been made in greenhouse building had been chiefly along the following lines: 1st—more artistic designs and adaptation to location; 2nd—better arrangement of plans for light, ventilation and heating; 3d—greater economy in construction and durability; 4th—general adaptation to the growth and exhibition of plants.

In speaking of the selection of plans Mr. Burnham said that this is a matter of first importance which should in all cases be placed in the hands of some person of skill and experience in this special branch of architecture, as an ordinary architect, having little or no experience in such work, could not be expected to properly provide for well proportioned ventilation, proper arrangements for sunlight, pitch of glass and other essential conditions in greenhouse construction. For roses, midwinter flowering, forcing and early vineries he recommended what is known as the three-quarter span, having the ridge about east and west, with the long slope to the south; for most other purposes the full span houses with the ridge running north and south was approved. Referring to the much discussed short span to the south system the lecturer spoke as follows:

It is a modification of the three-quarter span house, having the short slope of roof on the southerly side. The height of the sides are alike. The pitch of the northerly side is from 22½° to 30°, and on the southerly side about 45°. The plant tables are all on a level. It is claimed for this style of house that in the dark winter months the sun's rays strike the glass at nearly right angles, and that in consequence more of the rays enter the house than through an ordinary pitch roof, and better results are thereby obtained; also that the low pitch on the north side allows the houses to be set up against each other similar to the ridge and furrow system. The claim that a greater number of effective rays of light enter the house through a longer plane of glass at a less pitch is doubtful. A long flat glass roof on the north side where the sun never shines, to hold snow and ice until the warmth of the house melts it off, is certainly a disadvantage which can readily be appreciated in this latitude. Undoubtedly this style of roof admits a large amount of light, but in this respect it has no advantage over a full span roof running east and west. Architecturally it presents a very awkward appearance. The level table plan keeps all the plants except the front bench more or less in the shade of each other, which is largely avoided in the arrangement of elevated tables such as are usually adopted in regular three-quarter span houses.

He treated the construction of greenhouses under three general heads.

1st—Sash bar houses: These differ, he said, from other houses in the bars being made of greater dimensions and strength, constituting the principal framework of the structure. The cheapest, though not the best, mode consists of this old fashioned post and sash bar house furnished with an entirely new set of details. As formerly constructed it was so frail that it would last in good condition not much more than five years. Some houses of this class have been rebuilt three times in twenty years and are now in a very shaky condition. If they had been constructed in accordance with the new details and with the materials now in use they would easily have lasted without rebuilding until the present time. The construction is entirely of wood except the purlin and ridge supports, which are usually gas pipe posts. A list of the different members and a description of same which go to make a complete section of the house are as follows: Ridge in three sections so that the splices are mismatched, with side grooves for ventilators and glass, projections for support of lower edge sash bars, and a dripped cap. The ventilators are of the usual style, but fastened together with light metal caps, so that, although made in sections, they are practically the same as a continuous single sash the length of each ventilating shaft. The gutter is formed in three sections like the ridge so that all joints are mismatched. The joints are butted in lead, with metal slip tongues. The side posts are of locust, cedar or cypress and not less than six inches in diameter. For a slight additional cost iron posts can be substituted. The sides are of double boarding with two thicknesses of strong building paper between. The sash bars are of cypress 1⅛x2¼ inches, rabbeted for the glass and dripped to carry away leakage and condensation. They are usually placed for 16-inch glass and run through without framing from plate to ridge. Stationary glass or sash ventilators can be substituted for the boarding above the side tables if desired. At the foot of the top ventilator a header is fitted over the bars without cutting them, receiving the glass, and in a simple and effective manner do-

ing away with all framing at that point. Where a small original investment is an important factor there is no construction superior to it. It is especially adapted for florists and market gardeners commencing business on a small or borrowed capital, where it is important to secure the largest possible income for the least present investment.

2nd—Wood frame greenhouses: The second style as to desirability and cost consists of an improved construction, wood forming the principal part of the frame. The sills are made in three sections to cap a brick wall, and are adjustable to its inequalities. The splices being made at different points in the length the sill is the same as though of but one piece its entire length. The members of the sill are carefully pitched to turn off water. The rafters are in two pieces, the long roof piece running from ridge to plate, and the upright between sill and plate. These are joined at the plate or angle by means of a cast iron bracket securely bolted; a similar bracket is used at the ridge. The sash bars are 1¾x⅞ inches dripped to collect condensation. The purlins which support the light sash bars are of angle iron fastened by iron lugs and bolted to each other through the wood rafters. There is no place left in this construction where the wood used is not protected in the most thorough manner against decay. The house is very light and at the same time strong and durable. This construction is only adapted for straight roofs. The form of the house is simple, but very neat and graceful. Perhaps a larger number of this style of house have been built than any other, and as they present equally as good an appearance as a more expensive construction they are likely to remain a popular style of house.

3d—Iron frame greenhouses: We come now to the third class, and by far the most important, as it embraces the best forms of construction throughout. It consists of wrought iron frame, cast iron sills, wrought iron benches with slate or brick bottoms; in fact every part of the house which bears any strain or which if decayed would injure any other part is of iron and comparatively indestructable. Wood is used as a cap for the iron work to prevent trouble caused by contraction and expansion, and as a setting for the glass.

The first range of glass where this construction was used was erected in 1881 for the late Jay Gould. At a recent interview Mr. Mangold, Mr. Gould's superintendent, stated that so far as he knew not a light of glass had been broken by any settlement or by expansion or contraction during the twelve years since it was built, and with the exception of painting there has not been a dollar's worth of repairs in that time. Before the erection of this house and the adoption of this mode of construction the nearest approach to it was in the conservatory at the Botanic Garden at the Capitol in Washington. That house was originally built entirely of iron, the glass being set directly on the iron rabbets. In this form it was not a success, and after repeated repairs and modifications wood rabbets for the glass were substituted, and in this modified form it has since been fairly successful. The experience of Superintendent Smith with this house and his valuable suggestions led the way to a decided and important improvement. During the winter of 1880-1881 Mr. Gould's extensive range of glass and collection of plants were entirely destroyed by fire, caused by a defective flue. The old houses were of wood construction and Mr. Gould requested that if possible the new ones should be of iron. Up to that date there were no greenhouse builders in this country using iron for construction, so that to meet Mr. Gould's desire it became necessary to plan a new departure in the method of construction. With the experience of the Botanic Gardea in mind the new details were perfected and successfully embraced in rebuilding Mr. Gould's houses, and were almost immediately adopted by the late Peter Henderson in an extensive range for commercial purposes. With such endorsements the new method of construction soon became popular, and most of the important glass buildings erected since that time have been built on substantially the same plans. The winter garden and greenhouse of Mr. Wm. B. Forbes, at Milton, was one of the earliest examples of this style of construction in the vicinity of Boston. The system admits of any form of roof which may be desired, from a plain and simple lean-to to large full span curvilinear structure with Gothic or Ogee curves. In curvilinear work it has entirely superseded the former wood construction.

The iron sill is cast in sections of the same length as the distance from center to center of rafters, usually six to eight feet long, and shaped to cap an eight or twelve inch wall, according to the size of the building. A lug is attached by a tap bolt to the end of each sill; the rafter is placed so it rests partly on the end of each sill, and when a single bolt is placed through both lugs it will be seen that the two pieces of sill and rafter are all substantially secured. The expansion of the sills is allowed for in a very simple manner by drilling the holes in the lugs slightly larger than the tap bolts. The form of the sill is such that great strength is obtained with the use of but a few pounds of metal per foot. The top of the sill is beveled so it does not hold water, and is provided with a stop cast on solid for the ventilator or sash to close against.

The wrought iron rafter is formed of refined bar iron, ½x3 inches dimension for small houses, twenty feet and less in width, to ¾x6 inches for houses having a fifty foot span. This iron can be had in any lengths desired and can be bent to the shape of the roof, cold, by means of a screw or hydraulic press. No matter what the shape of the roof this supporting rafter can be bent or welded to it, giving equal strength as though it were a simple straight line house. Purlins are placed laterally between the rafters about four feet apart. These are made of wrought iron bars or angles and serve to brace the rafters sidewise, also for the support of the light sash bars and glass. In joining the purlins to the rafters care must be taken to allow for the expansion of the metal and some special provison made for it, as when the sun shines directly upon the iron it has been known to expand nearly ⅛-inch in an ordinary length of purlin. Such an expansion in each purlin in a house one hundred feet long would amount to a total increase in the length of from one to two inches, and would cause certain destruction to the glazing and other parts of the structure. In this connection the experience of one of the proprietors of an important New England iron works may be of interest. He stated that his father, who was an expert engineer and had established the works many years before, had built himself an iron framed greenhouse. The first season it was ruined by contraction and expansion of the metal. With this experience as a guide he attempted to remedy the trouble and made extensive changes to cure the defects, when it was again badly damaged. This time he gave it up and rebuilt it with wood, saying that an iron frame was not adapted for greenhouse purposes. This old wooden greenhouse, after standing many years, was replaced by one of the modern iron constructions with entirely satisfactory results. The amount of wood used in this construction for sash bars, caps, sashes, doors, etc., is very slight, and as no weight or strain of the building depends on any piece of it and as each piece is itself supported by the iron frame, a very long time must elapse before any repairs are needed; but when that time comes any part of it or all can be readily renewed.

Regarding ventilation the lecturer said that there seems to be but little difference as to whether the ventilators are opened from the bottom or the top of the sash as far as protection from the winds when in use is concerned, but there is a decided difference in the mechanical construction in favor of having them hung to the ridge. He favored the use of side sash ventilators for rose houses and others which are to be run in the summer months. He spoke highly of American glass, the manufacture of which has now reached a high state of perfection, the double thick glass averaging nearly ten per cent. thicker and stronger than the French glass, which in a hail storm may easily mean the difference between a broken roof or one that stood the storm. As to glazing he favored decidedly wooden sash bars, and cautioned against the use of adulterated putty. For painting he said there is nothing better than pure white lead and raw linseed oil, two to three coats to new work with an additional coat after one year, and repainting every two years, as a roof that is regularly and properly cared for will last twice as long as one which is neglected for several years and only repaired when it must be.

The construction of plant beds, the selection of lumber, foundations, walks, location, heating, potting rooms and other pertinent subjects were all treated at length and after the conclusion of the lecture the audience remained a long time asking questions and discussing the various points brought out. Hot water for heating establishments under 10,000 feet in extent was advocated while steam was acknowledged to have many advantages in its favor where large establishments are heated. Over head heating was positively condemned by the lecturer and seemed to have no advocates in the audience.

Benches First, Roof Last.

Plant houses are usually erected and glazed before the heating pipes and benches are placed; but we built a house last season in which we reversed this order, much to the satisfaction and comfort of those who did the work.

As soon as the walls were made we put the heating pipes in position with their permanent supports, then made the benches and laid the walks, having the latter to travel on during construction and the benches as substantial level platforms to scaffold from.

I send with this a photograph showing the appearance of the building while the roof was being added. W. T. BELL.

Franklin, Pa.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



BENCHES FIRST. ROOF LAST.

Our Telephone.

Hello! Hello, Newport! Is that Newport, R. I.?

Yes. Number, please.

Tie us up to Carl Jurgens. Hello, Mr. Jurgens! Is that you?

Yes. Oh, how do you do? What can I do for you?

Tell us something about bulbous stock. How is it going this winter?

Well, slow, except lily of the valley. I think the people don't care very much for bulbs now. Roses and carnations are what they want. When roses are cheap there is no show for bulbs. If roses would be as dear as eight or ten years ago, bulbs would sell.

Do you think that the cheapness of roses accounts for the decline in the demand for bulbous flowers?

Yes, I am sure it does to a considerable extent. When roses were scarce bulbs sold. About middle of March so soon as roses got cheap I always noticed that bulbs had to suffer. From about 1884 more roses were grown and since then the bulb flower trade has been falling off every year. Bulbs will go just as camellias did. The people have got something they like better.

You say that lily of the valley sells well still?

Oh, lily of the valley will always sell. Everybody likes it because it is sweet, and it never will be out of the market. I remember in 1869 when I told a well known florist that I thought I would grow lily of the valley in quantity for the market he said it wouldn't go. "But what are you going to do with it," he said, "it sticks up; it never can be used." At that time you know they made up all their flowers into flat solid bouquets.

Are you growing the same quantity this year as usual?

No; good valley stock was scarce last fall and I did not lay in so much. Up to December 1 I use stored pips. I put in no new ones till December 1. The last flowers from the old are gone by January 1, but the old foliage we keep to go with the early flowers. By middle of January the new foliage comes good.

How about tulips?

Tulips, there is nothing in them any more. A few fancy ones will always sell, as some people like them, but in quantity tulip forcing is gone. Pink tulips are the best selling now, but they must have good flowers and long stems, so they will have to be late. Tulips forced early have no shape to them. Duc Van Thol you can't give away, not even in the streets. There are so many roses and carnations there is no room for tulips.

The demand for tulips increased very rapidly at one time, did it not?

Yes. In 1872 I had 2,000 tulips in and couldn't sell them. The next year I had 20,000, but only white would sell. I increased every year till at last I forced 280,000 in one season. Last year it had got down to 80,000. It's queer the way they used to want them. In 1881 or 1882 I forced 95,000 Duc Van Thols up to January 15 and they all went. The New York people couldn't get enough of them. They would not give them time to open. Just the red point between the folded leaves. Klunder, he would just pull off the two leaves from the little bud. "You see, it's as good as a Bon Silene," he would say. But ever since 1884 the tulip has been running down. After that we had to have finer varieties too. Even at Easter tulips are gone up excepting in pans as plants. Many bulbs will always be sold this way. I believe that bedding out will increase, so the tulips will always find a market, if not in one way in another.

How about narcissus and Roman hyacinths?

Well, the paper white nobody seems to want. There are too many of them by half, if anybody is to make any money out of them. I find the double Von Sion the best selling. The single one is harder to sell. I get one cent more always for double ones, but there are fewer of both sold than formerly. We all got a black eye on double narcissus last year. There was a big demand and the price was put away up. Oh, they're very keen, the Hollanders. For my own taste there is nothing handsomer than a big single trumpet. Over in England they are highly prized and they are getting out handsome new varieties all the time. The poet's narcissus I used to sell lots of, but the carnations hurt that now; they take its place. Roman hyacinths have been selling very low, although they were grown this year in reduced quantities.

Do you force lilacs?

I believe I grew the first lilacs that were ever seen in America before Christmas. that was in '71. You can have it easily by December 15 with plenty of heat and good root stock. Boston never took to lilacs. In New York they were popular, but I think they are gone there too. Every flower seems to have its day. A few years ago here in Newport they all wanted sunflowers and such things, but it only run for about one season. Anything sweet, roses, carnations, violets and lily of the valley always will be popular. So I am going more into roses. Perle is a good rose here; it comes a fine deep color with us. I have three houses 200x23 and one house 120x18 of Perles. The buds all go to Boston.

Do you get many "bull heads" on your Perles?

Not many. I believe that trouble comes from the plants getting a chill. As soon as cold weather strikes in December we get them, but none from now on. I never see them in the spring or fall. In summer I rely on La France. That is the rose for Newport, but it's no good for Boston. Meteor mildews badly with us in summer.



Carnation Notes.

"It's good, but it bursts badly" is a common expression among carnation growers, but hardly a correct one. No carnation that bursts badly can be called a good one. If it is not a good one, what is the use monkeying with it? Fire it out of your list for next season and replace with a better one. This bursting business is a funny thing to control; sometimes you think you have found the proper way to handle them so they will not burst, and the next season away they go all to pieces again, as if their main object and purpose was to mortify the grower and teach him how little he really knows.

In conversation with a grower recently I was told that he had a very fine seedling that did not burst the calyx last season and this season it is almost worthless from that cause. He acknowledged that he had been using an artificial fertilizer on it and stimulating it considerably, and thought that might be the cause. My experience has been that any extra stimulation beyond what will produce an ordinary healthy growth will also produce bursted calyces. Keeping the houses very warm and at the same time very moist will have the same effect. I find that carnations grown on benches are more subject to it than those grown in solid beds; that growing them very cool will bring more bursted flowers than all the other causes combined; that varieties that are not generally subject to bursting will in a spell of very dull weather start and if not very carefully watched will make a bad lot of bursted flowers.

We can learn a little from these causes how to help ourselves. In the first place it is well not to have your soil too rich. If you find that they will bear a little more stimulation after growing a while you can add what you think from their general appearance they will be able to stand. It is not policy to grow them too poor, as even that will cause them to burst, and you want to give them just as much manure of whatever kind you use as they can stand to get the best results. Keeping the houses very warm and at the same time very moist, also keeping the houses very cool, will burst the flowers. Everyone will have to learn for himself what temperature his plants will do best in, as a difference in the soil will also make a difference in the temperature best for them; and the different varieties will almost all do better in different temperatures. Wherever it is practical each variety should be in a separate house so it can have special treatment.

I am still astraddle the fence on the question of benches versus solid beds and don't know which side to get down on. When it comes to a variety like Fred Dorner and Aurora there is no question but what the benches are the best, but when you get into Lizzie McGowan, Daybreak and a number of others there seem to be more points in favor of the solid beds than for the benches, not the least of which is the fact that the flowers will burst a little more on the benches; in fact with those two varieties there are scarcely any bursted ones on the solid beds, while there are a few on the benches. The main object is to try and get varieties that will not under ordinary conditions do any bursting, then keep an eye on them all the time for any indications and hunt up the cause and remedy it.

ALBERT M. HERR.

Chicago Carnation Notes.

NILES CENTER.

Carnations at Stielow's are in full crop and with exception of one or two benches are looking well. Daybreak particularly is extra fine. The house of this variety is without exception the finest we have seen this season. There is not a poor or diseased plant in the batch, the growth is wonderfully robust, and as the plants are neatly staked and tied the house is a beautiful sight. Mr. S. is naturally more than pleased with this sort, and in his opinion it will produce as many blooms as the more common kinds. But the majority of the other growers we interviewed on this subject do not claim quite so large a yield, still all are agreed that as finely grown blooms of this sort always find a ready market at figures from 20 to 30% higher than common varieties it proves one of the most profitable carnations grown.

In an adjoining house we find a lot of Garfields. The plants look vigorous and are covered with buds and fine blooms. This stock is grown in solid beds, the soil in which has never been changed since first planted with this variety, which has been grown in it for five or six consecutive years with the most satisfactory results. We acknowledge that we have seldom met with a superior looking lot of Garfield, but although this manner of growing it has been very satisfactory here it is still an open question whether it would not have succeeded even better if the soil had been changed every year.

Lizzie McGowan and Silver Spray are grown for white. The former is looking well, and barring here and there a diseased plant the stock looks healthy. As a producer, too, this kind is quite satisfactory, and as seen at this place is apparently free from rust. Silver Spray, too, is in good form, although not entirely free from rust. The blooms have a tendency to split but not nearly as bad as noted in many other places.

Aurora, as seen here, is a fine variety and has proved quite satisfactory as a good all round pink. Edna Craig on the other hand is badly diseased and the flowers are badly streaked. Grace Wilder is fairly good, but the blooms are also very uneven in color and split badly. Tidal Wave is good. All the above, with exception of Garfield as noted, are grown on benches.

At Mailander's establishment we find a number of houses filled with such varieties as Lizzie McGowan, Silver Spray, Hinze's White, Daybreak, Grace Wilder and Tidal Wave. Most of these are in solid beds and on the whole look thrifty. Hinze's White is coming in full crop now and until spring will yield a heavy cut.

Lindenberg is cutting some good carnations at present, principally of such sorts as Daybreak, Grace Wilder and Silver Spray. The latter though is badly rusted. Here we note the first batch of Mrs. Fisher we have met with, but Mrs. Fisher doesn't seem to relish our Chicago soil or climate, at any rate we have never seen a decent looking lot of this variety grown in our vicinity, and Mr. Lindenberg's are no exception to the general rule. The flowers are small and tinged with pink.

Poehlmann Bros. are into carnations quite extensively and show a number of very fine looking houses at present.

Silver Spray when seen last was the best lot we have noted, and with the exception of one or two small lots seen at other establishments the only stock which shows up in its old time vigor, and as far as we could notice without a trace of rust. The flowers, too, are of good size and form.

Hinze's White is grown quite extensively and is looking well. The flowers are larger than are often seen even of this variety, and when left on the plants until fully ripe nearly pure white. Although a late bloomer the Poehlmanns have always regarded this as one of their best paying varieties and intend to keep on growing it. These plants are grown partly in benches and partly in solid beds with very little difference in results except that the flowers produced from solid beds are a little larger.

Lizzie McGowan also looks well, but the flowers are not up to standard as regards size. Daybreak and Tidal Wave come fully up to the average, but Portia is rather disappointing although perfectly healthy and a prolific producer. The blooms are small.

Grace Wilder we note of better quality than seen at most places, but it is yet far from being satisfactory; as far as vigorous growth and soundness of stock generally is concerned there is little better to be desired, but the blooms are sadly deficient. While a few of the blooms are perfect and of fine color the greater number are both off color and ragged.

A small batch of Edna Craig are the first really good stock of this kind we have met in our rambles. The plants are perfectly healthy and produce flowers of extra size and beauty; it is only here and there we note a bloom that shows a tendency to fade, a fault we noticed too often in other places. The plants are grown in solid beds in moderately heavy soil.

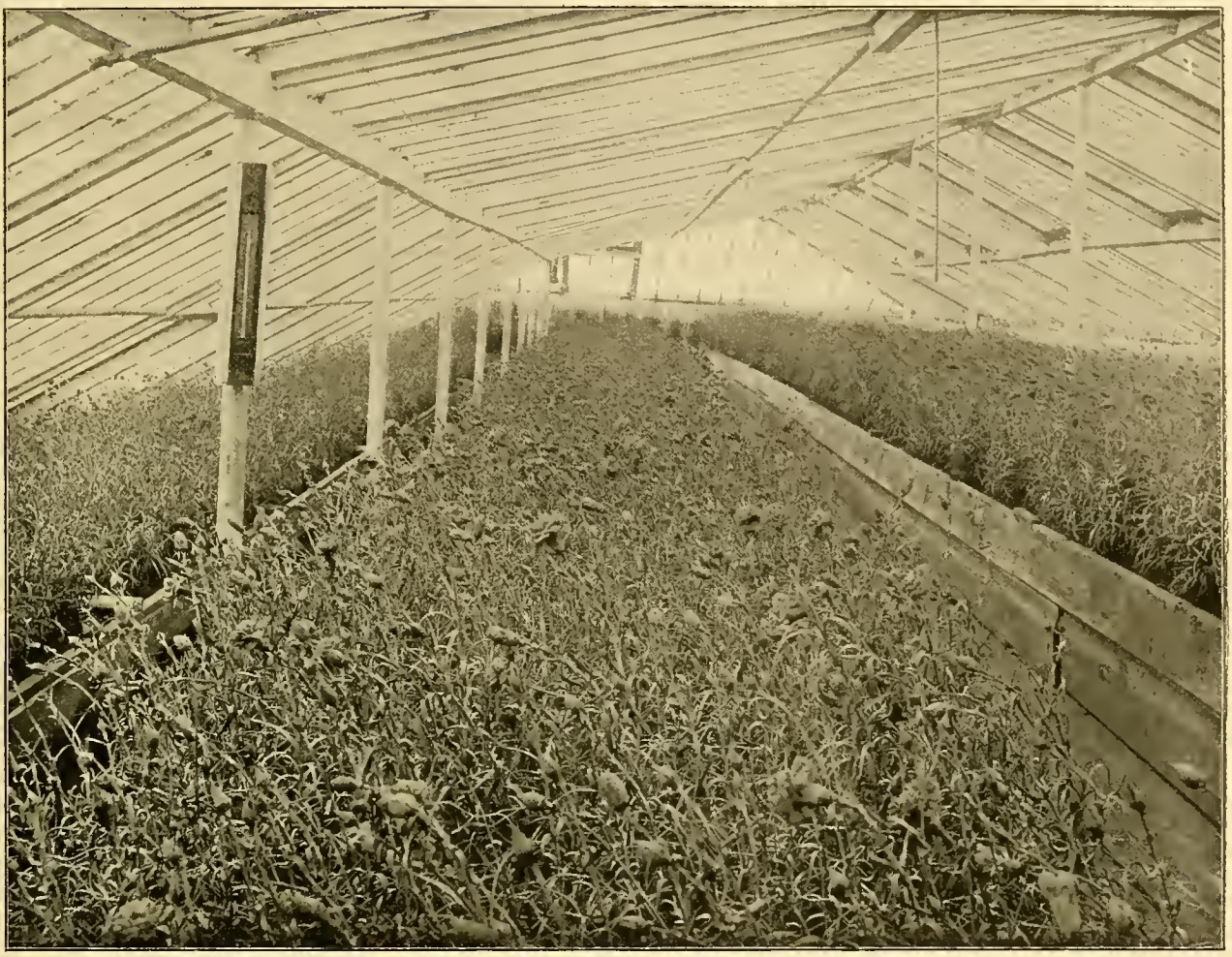
B.

American Carnation Society.

The annual meeting of this society will be held at Indianapolis next Tuesday and Wednesday (February 20 and 21). Headquarters will be at the Dennison Hotel. The program is a very attractive one and the display of new varieties promises to be very large and of very great interest. On Tuesday evening the society will be banqueted by the state and city trade organizations. With such a combination of attractions there will undoubtedly be a large attendance.

House of Carnation Bouton d'Or.

Bouton d'Or is not a new carnation, having been in existence for several years, but it is practically new to the American trade, as it has not been disseminated here to any extent. A few carnation growers have imported the variety, but found it so difficult of propagation that it was discarded, and it was left for Messrs. Dailledouze Bros. to discover its good points and to introduce it to the American trade as the best yellow carnation ever offered. These growers claim to find no difficulty in propagating the variety, and as to its pre-eminence as compared with other yellows, in that quality so conspicuously lacking in carnations of this color, viz., free flowering, our illustration furnishes excellent proof.



HOUSE OF CARNATION BOUTON D'OR AT DAILLEDOUZE BROS., FLATBUSH, N. Y.

The flower itself is well formed and very full, color yellow with slight crimson markings.

Greenhouse Rhododendrons.

These beautiful plants are not grown nearly as much as they deserve to be, although they are becoming much more popular every year. They make one of the most effective of all winter flowering decorative plants and for Easter work are unsurpassed even by the favorite azalea. They can be brought into flower for Easter without any trouble, and by giving to them the same treatment as an azalea they do well. One thing is necessary—they must not be allowed to dry out during summer. They must be kept cool and moist at the roots during hot weather, or they will not make a good growth. After growth is completed give more sun, still not allowing them to dry out, to ripen the wood and insure the flower buds setting, then treat as to soil, attention and so on just the same as an azalea. The greenhouse rhododendrons are mostly hybrids of R. arboreum and the Himalayan varieties of R. ponticum.

R. ciliatum is a most valuable florists' variety on account of its dwarf habit and early flowering qualities. The flowers are in clusters of from four to five and varying in color from rose to pure white. R. Dalhousiæ is a noble species from the Himalayas. The large campanulate flowers measure about four inches in length and about as much across the mouth; they are produced in large dense heads and are white, tinged with rose, and very sweet scented; it blooms quite early.

Countess of Haddington is a very fine garden hybrid of very robust habit, the foliage very stout, bold and dark green; the flowers are very large, delicate blush white in color. R. Edgworthii: The leaves of this species are densely covered on the under side with soft ferruginous wool, the upper side being bright green. Flowers large, white and remarkably fragrant. Rather a late bloomer. R. fragrantissima is a fine garden hybrid; the flowers are large, pure white shaded with rose and very fragrant. It is one of the best greenhouse varieties. R. Javanicum is a fine species of good growth and habit. The flowers are large and golden yellow in color. R. Jenkinsii is a very fine compact growing species, forming a fine specimen; one of the best for conservatory decoration. Flowers large, funnel shaped and pure white. R. Nuttalli: This fine variety produces immense trusses of very large pure white flowers; they are, however, relieved by a tinge of gold in the throat, while on the outside they are suffused with rose.

Prince of Wales is a fine hybrid, the flowers very long, tubular and of a bright orange color. It makes a good greenhouse plant. Princess Alexandra is a very free flowering variety; the flowers are long, tubular and pure white.

R. jasminifolium is a most beautiful and useful species. The flowers, produced in large umbels, are tubular, pure white and very fragrant. Princess Helena is a garden hybrid with long tubular flowers, delicate pink in color. This variety is of a dwarf bush habit and is a fine florists' variety. Veitchianum, very fine species; the flowers are large, pure white, stained with yellow at the base and beautifully crisp at the margins. R. Thibautianum is a peculiar and pretty species from Bhotan, the flowers much resembling the ericas; they are produced in terminal trusses, beautiful bright red, tipped greenish yellow. R. virgatum candidissimum is a very fine garden hybrid of very compact growth. The flowers are produced in large trusses and are pure white.

Princess Alice is a garden hybrid of dwarf compact habit. Flowers large white shading to blush, very fragrant and a very free bloomer. R. præcox is a dwarf bushy sort with small bright, glossy leaves. Flowers rosy lilac in color, remarkably free flowering, flowers very large. An early flowering variety and most useful for decorative purposes. R. Daviesii is a garden hybrid of fine habit and foliage. Very free flowering, flowers large, orange red in color. Duchess of Teck is a good growing variety. Flowers yellow and scarlet, very striking and showy variety. Duchess of Sutherland, a hybrid of good, strong, robust habit, flowers very large, pure white and very sweet scented. Fulgens, a hybrid of good growth with large fiery

crimson flowers, plant of very compact habit. There are many other varieties, but I have only tried to name an assortment of the best varieties for general greenhouse use. JAS. S. TAPLIN.
Madison, N. J.



Florists' Orchids.

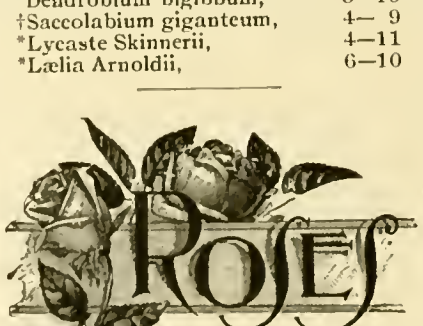
we give below a list of orchids for the use of such florists as have a fancy for their culture, not so much for profit perhaps, but rather that they may never be without flowers.

They are arranged under the usual flowering months, after several years of culture. Newly imported plants flower in a more irregular way. The growing months are also appended, and here again newly imported plants are irregular in growth for a year or two, and this more especially applies to species from the southern hemisphere.

Such species as may be propagated by division or the separation of the back bulbs are marked with a (*). Such others as should be renewed from fresh imports are marked (†).

It is much more satisfactory to grow a select list of 50 or 100 good orchids each in quantity, which will cover the year with their bloom than to attempt the growth of a lot of stuff which may never bloom, or bloom but very sparsely. Most of the 60 I have selected may be depended on to bloom every season, and most of them will make blooming plants from back bulbs, etc., in from three to five years. or something longer than a lily or a tuberose.
Trenton, N. J. JAMES MACPHERSON.

	Growing months.
JANUARY.	
†Angræcum sesquipedale,	8—12
*Calanthe Veitchii,	2— 7
*Dendrobium fimbriatum,	3— 9
* " Leechianum,	1— 9
*Lælia anceps,	4—10
* " anceps alba,	7—12
FEBRUARY.	
*Cœlogyne cristata,	4—10
*Cymbidium eburneum,	6—12
*Cypripedium villosum,	2—10
*Dendrobium Ainsworthii,	4— 8 and 8—12
* " nobilis vars.,	2— 9
* " Freemanii,	2— 9
MARCH.	
†Vanda Amesiana,	3—10
*Phajus grandifolius,	4—12
*Dendrobium chrysotoxum,	6—10
* " albo-sanguineum,	5—11
†Oncidium sarcodes,	6— 9
†Cattleya Trianæ,	5— 8
APRIL.	
†Cattleya intermedia,	1—12 and 10— 3
*Cypripedium hirsutissimn,	4—11
* " Lawrenceanum,	4—10
*Dendrobium Dalhousianum,	3— 8
†Lælia purpurata,	1—10
*Odontoglossum pulchellus-majus,	1— 8 and 9—12
MAY.	
*Ærides Ballantineanum,	4—10
* " Fieldingii,	3—11
*Brassia verrucosa,	5—11
*Dendrobium crystallinum,	1— 8
* " suavissimum,	5—10
*Oncidium Lanceanum,	1— 5 and 9—12
JUNE.	
*Ærides virens,	6—10
†Cattleya Mossiæ,	5— 9
*Dendrobium thrysiflorum,	5— 8
*Thunia Marshallii,	3— 8
JULY.	
†Ærides crispum,	7—11
*Lælia elegans,	1—10
*Stanhopea eburnea,	8—10
†Vanda tricolor,	3—11
AUGUST.	
*Ærides Sanderianum,	3—10
*Cesoponidium vulcanicum,	1— 8
*Miltonia Regnellii,	1— 8
*Peristeria elata,	5—11
SEPTEMBER.	
*Saccolabium Blumeii,	3—10
*Cattleya Bowringeana,	5—11
* " Harrisianum,	3— 6
†Lælia Dayana,	6— 9
*Miltonia candida,	1— 5
*Oncidium incurvum,	2— 9
OCTOBER.	
*Ærides Rohanianum,	4— 9
*Cœlogyne accellata,	2—10
†Vanda cœrulea,	3— 7
*Oncidium ornithorynchum,	2—10
† " Rogersii,	2— 8
NOVEMBER.	
*Cypripedium insigne,	1— 9
*Pleione maculata,	1— 8
* " Wallichii,	1— 8
*Dendrobium Phalænopsis,	5— 9
*Zygopetalum Mackayii,	7—12
DECEMBER.	
†Cattleya labiata,	3— 8
† " Percivalliana,	5— 8
*Cypripedium Harrisanum,	1—10
*Dendrobium bigibbum,	5—10
†Saccolabium giganteum,	4— 9
*Lycaste Skinnerii,	4—11
*Lælia Arnoldii,	6—10



Chicago Rose Notes.

NILES CENTER.

At Fred Sticlow's we find the first batch of Jacqueminots in full crop. The flowers are of very good color and size and with long stems, features we do not always find in an early crop. But then it is not so very early in the season either. Growers in this vicinity have found out by past experience that it doesn't pay to force this rose too early, and consequently few flowers appear in our market previous to February 1. The first blooms were cut January 20. The plants are grown in pots and started in batches of several hundred at a time at stated times to insure a continuous crop of blooms.

At the present writing, February 2, the first blooms on the hybrids are opening. As usual Mr. Sticlow's three houses of these roses are looking very fine and promise a heavy cut. The following varieties are grown: Ulrich Brunner, Mme. Gabrielle Luizet, Rothschild, Merveille de Lyon, Louis Van Houtte and Anna de Diesbach. These hybrids are all grown in solid beds and are not replanted but once in three or four years.

We also find a house of Jacques grown in solid borders. This house was planted some four or five years ago and has been a nightmare to Mr. Sticlow ever since. "Just take note of the canes on these plants," remarks Mr. S., "could they possibly be stronger or better? The wood is well ripened up, and yet the result will be as disappointing this year as it has been in former seasons. I cannot account for it. The canes break all right, but don't set any flowers. I am resolved to throw these plants out every year, but when fall comes and I see such splendid wood I am always tempted to give them another trial. Well, I am sure they will go this year."

The house of Beauties is not looking well at this writing. Most of the blooms are on short stems. The fall crop was very satisfactory.

Several houses of Brides and Mermets are looking well. The latter variety is of very good color and good average size.

Gontiers have proved very satisfactory the entire season. The stock is two years old and grown in solid beds.

Meteor is doing but little in midwinter. The blooms, though few in number, are of fairly good color. La France about the same.

The bench of Cusins has done but poorly this year. This variety has been grown exceedingly well in former seasons on this place, and proved one of the best paying kinds. Mme. Pierre Guillot did fairly well up to midwinter, but is looking very poor now.

At Mailander's establishment we note a house of Woottons that look very fine. The blooms, though not as large as we have seen, are of fair size and remarkably good color. The plants are vigorous and altogether the best lot of this variety we have seen this winter. Brides look fairly well, and the same might be said of Mermets and Perles. Meteor also is doing well and now that the days are lengthening and we get more sun the crop will be abundant.

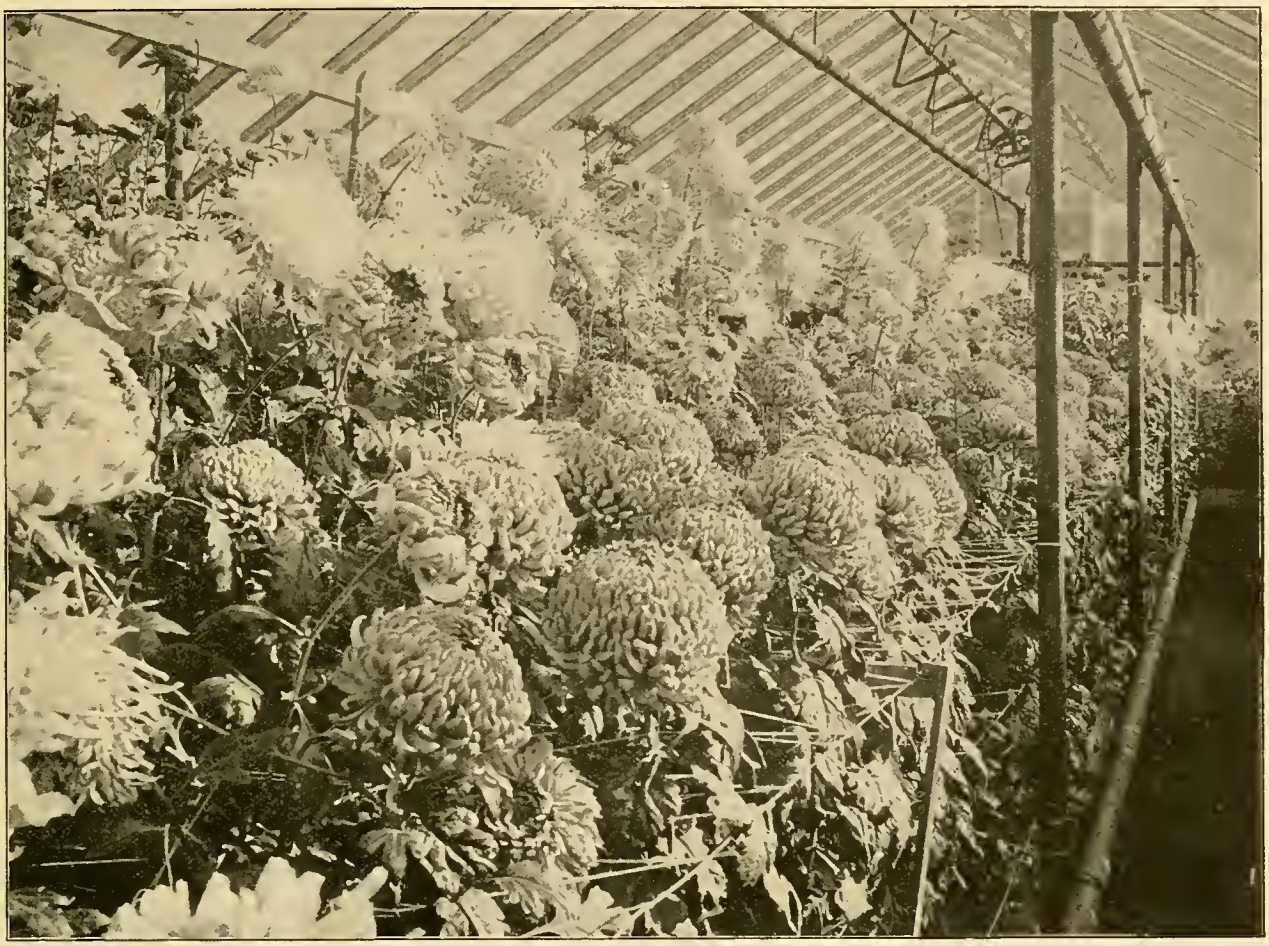
Speaking of Meteors, we may mention here that at all the establishments visited this winter, and that means nearly every place of note in or around Chicago, we have seen not one single bench that might be termed first-class, although we cheerfully admit that this rose on the average is grown much better this year than in former seasons, and as its requirements are better understood by the grower there is no doubt that the quality of the blooms will be much improved.

Madam Pierre Guillot here, the same as in other places noted, is an entire failure. It seems a pity that this beautiful rose cannot be grown successfully around here. It is one of the very best selling varieties on the market, and for table decoration, especially under artificial light, has few equals. But the growers are unanimous that it don't pay to grow, and so it will have to go, unless it be grown in summer.

Of Gontier we note three houses doing well, buds of good size and bright color.

A large batch of Jacques and hybrids in pots will be in shortly; the plants are well set with buds and promise some good blooms.

J. Meyer is devoting but little room to roses, but what is lacking in quantity is made up in quality. His bench of Beau-



HOUSE OF CHRYSANTHEMUMS AT MR. F. DORNER'S, LAFAYETTE, IND., WITH THE NEW VARIETY MAJ. BONNAFFON IN THE FOREGROUND.

ties is the finest of the kind we have seen this winter. Brides and Mermets too are of extra size and excellent color. These are produced on two year old stock planted in solid beds. One house of Perles grown on benches is a sight to behold; the wealth of blooms is remarkable.

Poehlman Bros.' range of rose houses is in splendid condition; with the exception of Beauties every bench is in fine shape. The following varieties are mostly grown: Mermet, Bride, Perle, Wootton, Gontier, La France, Albany and Meteor.

Adam Harrer is showing a good house of Perles, but many of the blooms are bullheads. Mermets and Brides are also looking fairly well, but the cut is not satisfactory. La France and Albany are doing poorly, and so is Gontier.

Peter Blaumeiser's place doesn't look as well as we have sometimes seen it. The roses are more or less mildewed and are also affected with black spot. There is a house of Jacques in solid bed which looks promising, and Beauties look fairly well.

At Lindenberg's there is a good prospect for a nice crop of roses from now on. The cut this winter up to the present was rather light. Most of the plants are two year old stock grown on benches and consist of the leading varieties of the older sorts. B.

Violets.

ED. AM. FLORIST:—Will you ask Mr. Edwin Lonsdale if he will kindly give (through your paper) his views on the culture of violets under glass, through the year; and thereby confer a great favor on the undersigned, and I doubt not, to the trade generally. E. G. BRIDGE.

The greenhouses best suited, according to my judgment, to the cultivation of violets under glass all summer are those having the short span to the south, believing that this style of house is cooler in summer than those generally in use, on account of the angle at which the sun strikes the glass. Thorough side ventilation in addition to that at top and as low down on the walls as practicable must in all cases form a part of an all-the-year-around violet house.

The house may be of any width best suited to the tastes and ideas of the owner, but that which would best meet the requirements of violets is one with a bed occupying the centre only of the house, and walks up each side and at the ends. The beds should be solid, and well drained and for convenience in picking the flowers and handling the plants generally they should not be less than two and a half feet high. The sides of the bed may be kept in position either by two inch planks or a brick wall may be built, or what I believe to be preferable to either is a wall made of concrete, as it is more lasting than the former and much cheaper and equally as permanent if well done as the latter. We have used for a similar purpose coal ashes and Portland cement, six parts of the ashes to one of the cement, with very gratifying results.

The plants should be placed in position as early in the spring as possible, eight to ten inches apart each way, according to the strength of the variety, and the glass should be very lightly shaded with white lead and naptha, or what perhaps would be better, one gallon of turpentine to one pint of boiled linseed oil; this checks the fierce rays of the sun without shading a great deal. If the plants are thoroughly clean from red spider or other insect pests when planted they can easily be kept clean if treated intelligently, as to watering, ventilating, weeding, etc.

There is no doubt in my mind that the lifting process which violets, carnations and some other plants which are used for winter flowering have to go through in the fall is largely the cause of much disease in this and similar classes of plants. In some soils and in some seasons these diseases are more prevalent than others, and of course some varieties of plants lift with greater ease and more certainty than others, and in some soils the root formation of a given plant is different to that which is made in other soils, and all these things have to be taken into consideration when experimenting. E. L.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

New York.

Owing to the very stormy weather the Florists' Club meeting on Monday evening was slimly attended, but the proceedings were interesting and the members present made up in enthusiasm what they lacked in numbers. President O'Mara being still unable to attend, Ex-President Manda presided.

The treasurer presented his annual report, which showed a cash balance in the treasury of twenty-three hundred dollars.

The proposed palm garden and what share in its establishment the club should undertake was brought up and freely discussed and was finally assigned to the next meeting, a committee having been appointed to investigate and ascertain whether the club has any right to invest in such outside business.

An amusing discussion took place between Mr. Fred Storm and Alderman Morris regarding the methods of admitting new members and the advantages and drawbacks of secret ballots, investigating committees, black balls, etc.

Mr. C. W. Ward next took the floor in advocacy of extending an invitation to the American Carnation Society to hold their next meeting in New York City, and after some discussion the secretary was directed to forward such an invitation on behalf of the club to the Indianapolis meeting of the Carnation Society.

Messrs. Weathered and Manda then spoke in favor of holding an exhibition during the coming spring and this was favored by the meeting and a motion passed recommending to the incoming exhibition committee that such an exhibition be arranged for at the earliest possible date.

The chair then announced that there were two strangers present, Judge C. W. Hoitt of Nashua, N. H., and Mr. E. A. Wood of Boston, and called upon these gentlemen to address the club, which they did in a most acceptable manner, thanking the club for their generous treatment and expressing the kindly feeling entertained in their homes towards the New York club.

Cut flower trade is dull. The first indication of a collapse was on the day before Ash Wednesday, and since then there has been but little doing. Thousand rates are beginning to be quoted on roses, the mixed grades going as low as $15 to $20, and it only requires a little sunshiny weather to bring about the proper conditions for a Greek's paradise.

Boston.

A trip to the F. L. Ames greenhouses at North Easton is always a treat, for there is no time of the year when there is not something to see, but just about now the orchids are at their best, and Mr. Robinson is never tired of showing and talking about his pets. The time passes very quickly while listening to him as he enthusiastically and eloquently points out the beauties of the many rare and valuable gems in this the finest of all the orchid collections in America. Lælias in many rare forms, cypripediums in wonderful variety of form and color, odontoglossums without number, curious masdevallias, cattleyas in gorgeous array and a host of other interesting and curious things are now blooming. The stove houses have been rebuilt during the past season and the plants with their improved advantages and increased room are in splendid trim, while the big grotto with its palms, tree ferns, begonias and lycopodiums never looked better. Another North Easton establishment where the boys like to call is Mr. Gilmore's, where Mr. Thos. Greaves presides over the houses. There is no attempt to rival the great Ames collection, but Mr. Greaves always has something creditable to show and produces wonderful results from the rather limited opportunities which he enjoys.

The three New England members of the executive committee of the S. A. F. with a few of their friends were entertained by Mr. Edward Hatch on the evening prior to their departure for Philadelphia. The occasion was a grand send-off for the delegation and was altogether one of the merriest reunions amongst the fraternity here for many a day. The table was profusely decorated with flowers and plants. Mr. Hatch presided and close at his elbow sat Judge Hoitt, to give him inspiration probably. The four Falstaffs, Norton, Comley, Ewell and Dawson were all on one side of the table which was balanced on the other side by a row which made up in musical and mental attainments what they lacked in avoidupois. The speeches were in part congratulatory, Mr. Hatch having recently moved into a new and commodious office. The musical numbers formed a leading part of the program, Mr. Wood's "Sleigh Bells," Dawson's "Five Cripples," Allan's Scotch ditty, Ewell's improvised recitatives and other melodies being rendered in the most approved style. Mr. Comley told some of his experiences in Japan, Robinson gave an excellent recitation and Edgar's autobiography read by himself was one of the great events of the evening.

The effect of Lent has begun to be felt by the trade and there are signs that as soon as sunny weather is in order an accumulation of stock is probable. Roses are more abundant but are of such a good quality that prices have not yet begun to drop, although this may occur at any time now. Dana & Murphy are sending to N. F. McCarthy & Co. a lot of the finest Mermets and Brides. These Mermets are rivals in color for the best Bridesmaids. Harrisii lilies move very slowly, and bulbous stock in general shows but little life.

The Florists' Bowling Club met the South End Bowling Club on Friday night and turned the tables on them to the tune of 179 points, and Messrs. Elliott, Foster, Coleman and their associates on the team are carrying their heads high as a result. Judging from the interest recently developed here Boston's team will likely be heard from at Atlantic City next August.

Mr. C. M. Atkinson has been seriously ill for the past week. Mr. Thos. A. Cox is also on the sick list.

In town: Mr. H. W. Gibbons representing Hitchings & Co., New York.

Philadelphia.

The February meeting of the Florists' Club was well attended and the proceedings were of a very interesting character. Mr. J. L. Dillon of Bloomburg and Mr. James Dean of Brooklyn were among the visitors. Remarks eulogistic of Mr. G. W. Childs, who for some time had been an honorary member of the club, were made by several of the members. Mr. Robert Craig spoke in behalf of the national society and said that as long as life shall last Mr. Childs' name would ever live in their memory. Mr. Dean also spoke feelingly and said that while the local horticultural bodies would feel keenly his loss it would also be felt by the whole country at large.

Mr. Burton's paper on the most profitable roses for winter forcing was not read, as the arrangements for the S. A. F. executive meeting and meeting of the society at Atlantic City took up so much time.

Mr. Dean was called on for some remarks. He spoke of the interest the Phila. members seemed to take in their club, and was glad to see they were so united. He predicted a large and enthusiastic meeting at Atlantic City in August next. His thoughts then drifted to the carnation, which subject, by the way, seems to be contagious, as everybody appears to be getting the craze in some form. The improvements in this flower he said had exceeded all others in the past five years and he thought a great deal of the credit was due to the Carnation Society, that had done so much to boost the flower. He predicted, or rather said it was stated, that not only $7 and $12, but as much as $25 per hundred would be obtained for choice flowers in the near future; that the model flower now must be at least three inches across and the stems two feet long. In speaking of chrysanthemums he cautioned the growers not to try to get them larger. They were large enough. It was not size, but perfect form, good colors and keeping qualities that should be sought for.

Mr. Dillon said that he came to learn and he was glad to hear that carnations were going to bring $25 per hundred. He said, however, that carnations could be grown too large; he considered perfection in color, form, fragrance, stems and foliage better than size.

Mr. Lonsdale spoke of carnations seen on his Boston trip. Among others that impressed him he spoke of Jacqueminot, which he thought would be a winner. He said to Mr. Dillon's qualifications should be added size, for carnations could not be grown too large if they had all the other good qualities.

There seem to be a great many carnations about at the present time, yet the price holds up very well. The majority are now selling at $1.25 to $1.50 per hundred; choice stock, however, brings $2 to $3, and some Edna Craigs $4, while Helen Keller is now down from 7 to 6, a remarkable drop. However, in spite of the retail price, from $1.25 to $1.50 per dozen, it is being asked for by name over the counter.

Roses are plentiful, although there is no glut. Prices have not fallen any as yet on account of the Lenten season, which, by the way, except for a day or two, has not had any detrimental effect on business. The mild, spring-like weather of the past few days has helped the plant trade considerably and flowering plants have moved quite lively.

Brunners have dropped a bit in price, but it is on account of their quality rather than for any lack of demand. The earliest Brunners seem to have been the best this season, as those coming in now are too single and have not the rich color and beautiful form which makes this rose so handsome. K.

Chicago.

The proceedings at the last meeting of the Florist Club were quite informal but decidedly interesting. There was a general discussion of a dozen different subjects of trade interest, and several speakers told some excellent stories to illustrate points made. Mr. A. Ringier, salesman for W. W. Barnard & Co., told of a big dog owned by that veteran grower, August Dressel, which had been so edu-

cated by his master that when any one said "bulbs" in his hearing he would show his teeth and growl. Mr. R. brought down the house by naively adding, "I am afraid that tulip bulbs will be reasonable in price this year." Mr. R. announced that one grower had admitted to him that he had made money on Roman hyacinths this year. But he refused to give the gentleman's name which was at once loudly called for.

All agreed that trade was very dull, and still there is very little first-class stock in the market. All really good flowers are quickly snapped up. In view of the scarcity of good flowers may be it's just as well that the demands upon the retailer are no greater than they are. The scarcity of good American Beauty roses was specially noted, and Mr. Anthony called the attention of those present to the value of Ulrich Brunner to supply the shortage of American Beauty at this season. American Beauty is nearly always about run out by the holidays, and in this market there is always a shortage of large roses in January and February. He believed there was a fine chance to make money for any grower with proper facilities who would bring in the Brunner during the months noted.

Orchids have now become standard stock in this market. Though most of them come from outside Mr. Anthony has of late had so many more than was called for by his retail trade that he has been sending quantities to a commission house. He grows mainly cattleyas and said he could cut 200 fine blooms now for any one that wanted them. Corbrey & McKellar have had a particularly fine stock of orchids of late. On a recent occasion their ice box contained more orchids than were ever before seen together at one time in this city.

Mr. Kirkham brought up the subject of enlarging the club's library and allowing members to take books home with them between meetings. The suggestion was favorably received and a committee appointed to put it into practice.

President J. T. Anthony is in Philadelphia attending the meeting of the executive committee of the S. A. F.

Several Chicago florists will attend the coming meeting of the American Carnation Society at Indianapolis.

Mr. W. J. Smyth has sold his greenhouses at 160 43d street to Mr. J. Blauck who will conduct a general business. Mr. Smyth retains his store at 256 31st street and will again be a retailer only.

The Horticultural Society of Chicago has issued the premium list for its chrysanthemum show of 1894. The cash premiums amount to $4,189, of which $1,091 is offered in prizes for chrysanthemum cut blooms, $1,010 for chrysanthemum plants, $395 for other plants, $688 for cut roses, $240 for cut carnations, $120 for other cut flowers and $645 for floral arrangements. In the chrysanthemum cut bloom section prizes of $50, $35 and $25 for vases of 50 blooms each of white, yellow, pink, crimson, bronze and any other color are a leading feature and should bring out a grand display. In chrysanthemum plants the leading prizes are for single specimens of each of the leading colors and groups of plants grown to single stem and flower. A departure is the heavy increase in the prizes for vases of roses. Fifty blooms to a vase is the rule and in the majority of cases the prizes are $15 for 1st and $10 for second. The show is arranged to be open seven days, beginning Saturday, Nov. 3, and closing Friday, Nov. 9. The rules require that all the plants and chrysanthemum flowers (except seedlings) shall be in position by 11:30 a. m. of the opening day. On the third day occurs the first competition in roses, carnations and other cut flowers. On the fourth day prizes will be awarded on seedling chrysanthemums and mantel decorations. On the fifth day the second competition in roses, carnations and other cut flowers takes place. The feature for the sixth day is the table decorations, for which prizes of $100, $75 and $50 are offered. On the seventh and last day the special attraction will be baskets of orchids, roses and chrysanthemums and set of bride's and bridesmaid's bouquets. A new feature that we should have noted above is the offering of liberal prizes for vases of *fifty* blooms of carnations in 24 classes, named varieties, except 4 classes for new introductions. It is certainly a liberal list and it will undoubtedly bring out a display of which the society may be proud and that will, if properly advertised, make a satisfactory showing at the box office. Copies of the list may be had on application to the secretary of the society, Mr. W. C. Egan, 620 Dearborn avenue, Chicago.

Business so far has dropped off greatly since Lent began; it is said that Ash Wednesday was about the quietest day on record in the trade, and prices already show the effect of the change. On Monday and Tuesday the effect of the great storm was felt in the local market, both days being exceedingly dull. There was no difficulty in getting the stock in on Monday, as it was usually shipped before the roads were blocked, but some delay was experienced Tuesday morning. It is quite likely that some of the shipping orders were delayed after leaving the city.

In roses there is still a lack of good Beauties; they are worth from $1.50 to $4 a dozen, according to quality. There is still a preponderance of short-stemmed and malformed flowers, which are entirely unsalable. It is a pity there are no Brunners to fill up the gap, but none of this rose are expected from local growers for another fortnight, by which time prices may be better. Meteors are mainly very dark in color, almost black, and quite a few are poorly formed; the best sell for $7 a hundred. Wootton and Bridesmaid are good at $6; Perles go at $2 and $3, and there are many very small flowers among them. Mermet, Bride and La France are down to $4, and are fairly good in quality. Carnations are increasing in quantity; ordinary varieties are $1 to $1.50, fancies $2. Quite a lot of Buttercup has been received lately, but this does not sell nearly as well as Daybreak and Scott. Edna Craig comes in limited quantity, but growers complain that it is not very free.

Violets may be named as the one flowers which continues in brisk demand; they are $1 to $1.50. Mignonette varies from $1 to $2.50. Singularly enough, after being the greatest possible drug for months, Romans have taken a jump and are selling well at $2 to $3. Valley is rather slow at the same price. Daffodils do not go as they ought; they are $3 to $4, but sell slowly. Tulips are very variable; one day they sell, another they do not. Some fine Chrysolora go, and some extra Kaiserkroon have gone at $5, but most of them are cheerfully sold at $2.50. Smilax doesn't go at any price; it has been stagnant all winter.

Ransom E. Kennicott, oldest son of Amasa Kennicott, was married February 14 to Miss Clementine Roland of Freeport. Mr. Kennicott has settled at Carbondale, Ill., where he will grow for the Chicago market the same lines of hardy flowers as are grown by his father at the old Kennicott place.

Washington.

The Japanese Minister and Mrs. Tateno gave an elegant dinner party recently at the legation in honor of the Secretary of State and Mrs. Gresham. The table decorations were in green and white. Three large plats of Puritan roses and adiantums were on either side of the table. In the center was a silver candelabra capped with green shades, resting on a white satin square embroidered in gold. Decorative plants were arranged in the drawing rooms, the chandeliers were festooned with asparagus and the mantels banked with spring flowers fringed with maidenhair ferns.

At Mrs. Secretary Graham's breakfast at the Arlington Hotel in honor of Mrs. Cleveland the decorations were in pink and green. The cloth was strewn with roses and asparagus. At either end of the table were oval plats of pink carnations with a centerpiece of extra La France roses and maidenhair ferns.

Secretary of the Interior and Mrs. Hoke Smith recently gave a dinner in honor of the President and Mrs. Cleveland. Their elegant home was handsomely decorated, the colors used being white and green. The dining room, which is octagonal in shape, was a bower of bloom. From the center of the ceiling radiating to every part of the room were countless strings of asparagus dotted with white camellias, forming a complete canopy. In every detail the features of a typical Georgia feast were carried out, the camellia being the flower of the state. In each corner of the room were small groups of decorative plants reaching to the ceiling. The large mantel was banked with adiantum and studded with camellias, relieved with valley and giant mignonette. The mirror over mantel was festooned with asparagus and here and there was fastened a bunch of valley. The buffet was handsomely decorated with asparagus and valley, Romans and mignonette. The centerpiece on the table was an oblong silver bordered mirror, about the edge of which was a garland of camellias resting on a wreath of asparagus, the inner edge of which was fringed with valley. A tall silver centerpiece with four arms, each supporting a very handsome cut glass vase, rose from the center of the mirror and held lilies of the valley and other spring flowers, including some of the finest giant mignonette it has been my pleasure to see this season. This centerpiece was a very handsome thing, reaching almost to the chandelier, yet so light as not to obstruct the view across the table. Smaller mirrors of the same kind were similarly bordered, forming a wreath around the center. Encircling the table forming half wreaths about each plate was a garland of lilies of the valley. Dainty little green wheelbarrows holding pistachio almonds, for each guest, were tied with narrow green ribbons, through each of which were sprays of valley and above which poised white butterflies. The idea of green and white was even carried out in the gown worn by the hostess. In the entrance hallway in the corners were tall bay trees covered with white camellias To the average guest they looked like camellia plants in full bloom. On either side of the fireplaces were great clusters of lilies. This was probably one of the largest decorations of the season, if not the largest, and was executed in Mr. C. F. Hale's best style.

St. Louis.

The regular monthly meeting of the Florists' Club was held during the past week and owing no doubt to the interesting matters that were expected to be acted upon there was an excellent attendance. The committee appointed to revise the constitution and by-laws at last reported and as the changes suggested were numerous and radical the better part of the afternoon was taken up in discussing the proposed changes. The most important matter allowed was the providing for the admission of honorary members. This it is thought will greatly strengthen the club, and bring it into more intimate contact with the flower lovers and buyers of this city. The suggestion regarding the holding of the meeting in the evening rather than in the afternoon, was promptly sat upon, owing to the number of members present who lived out of town and would be unable to attend if the sessions were held in the evening. The attempt made to raise the initiation fee and dues resulted in the annual dues being raised from two to three dollars.

The secretary read a communication from the trustees of the Shaw estate, and announced that the Shaw medal had been presented to the club. It was ordered that it be suitably engraved and forwarded to the winners.

A paper on carnations was then read by Mr. Carroll, in which he thoroughly covered the history of that plant as well as the methods of growing the commercial varieties of the present time. To show that he understood what he was talking about, there were present from his place a fine vase of different varieties, notable among them being Albertini and Dorner. Mr. Fillmore followed with a short paper on the same subject giving the facts which he found to be most essential in the successful growing of the Divine flower; his remarks all through showed they had been drawn from experience and successful practice.

Prof. Trelease of the Missouri Botanical Gardens, (who had been presented with a carnation plant suffering from nematoids), read a short paper covering the life history of the nematoid, explaining the manner in which it increased, and did damage as well as the inability to reach it with any means at our command and owing to being *in* the plant. There was passed around during the reading of the paper, an enlarged drawing of the various points touched on in his remarks which made them additionally plain.

Owing to the lateness of the hour, the question of holding a show, which was to have been decided at this meeting, was referred to a committee composed of Mr. H. Young, E. H. Michel, and Frank Fillmore, with instructions to report at the next meeting.

The market still remains firm. The fact that Lent has begun has had no appreciable affect. This is about as was expected, as trade for the past several months is not of a kind to be at all affected by Lenten devotions. Good stock is still scarce and goes at once, and the probabilities are bright for a good spring season. R. F. T.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By young man, 10 years experience with practical seedsman; married, age 27. W. S. Pino, Brattleboro, Vt.

SITUATION WANTED—By an experienced gardener and florist, private place preferred; references. H. OVENDEN, Hampton, Va.

SITUATION WANTED—By a practical florist and gardener in private or commercial place; good references. S. P., care American Florist.

SITUATION WANTED—By a lady, where she can thoroughly learn decorative and designing work; salary no object, but would expect board and lodging. C. E., Henly, Hays county, Texas.

SITUATION WANTED—By a German florist, 24 years of age, on private or well situated commercial place; 9 years experience. Address R. MAGER, 5400 Madison Ave., Chicago.

SITUATION WANTED—By March 1, in private greenhouses; experience as assistant gardener; German; salary $40 a month, room without board. Address E H, care American Florist.

SITUATION WANTED—By first-class designer a situation where artistic work is appreciated. Fast worker; steady and sober. Moderate salary but steady place expected. Address Y Z, care Am. Florist.

SITUATION WANTED—For gentleman's place by single man experienced in flower, vegetable and fruit growing. Good references. Address R, care Barnard's Seed Store, 6 & 8 N. Clark St., Chicago.

SITUATION WANTED—By a first-class florist, German, single, age 27. Life experience in the business, thoroughly in all branches, honest and sober and good worker. First-class references. H R, care American Florist.

SITUATION WANTED—As manager, foreman or headgardener in commercial or private place; a thoroughly experienced florist, fruit and vegetable grower; married, no children. East preferred. Good references. Address E C, care Am. Florist.

SITUATION WANTED—By a good all round florist, grower and propagator, as foreman or assistant in a commercial place, single, American, have had 16 years experience, Eastern States preferred; can give best of reference. Address FLORIST, 222 East 11th St., New York, N. Y.

SITUATION WANTED—By unmarried Scotch gardener; 14 years' experience in this and the old country; 4½ years as foreman in the largest wholesale and retail catalogue plant business in Canada. Address for further particulars GEORGE WATT 267 East Avenue N, Hamilton, Ont., Canada.

SITUATION WANTED—As assistant or foreman, by a young man, sober, intelligent and of executive ability; many years experience in growing cut flowers and plants in U. S. and Europe; good recommendations; northern part of Illinois preferred; state wages. Address PRACTICAL, care American Florist.

SITUATION WANTED—By an energetic first-class man, as head gardener; have had 20 years experience in the best gardens in England among orchids, stove plants, grapes, etc., renovating old and laying out of new gardens, last seven years as head; first-class references, age 31. Address, stating terms to MR. YOUNG, 250 Smith St., Hartford, Conn.

WANTED—First-class market gardener, single, German preferred; wages $25 per month and board. SCHMALZL & HUBER, Marysville, Kans.

WANTED—Man to grow roses and carnations; also one to grow chrysanthemums and general stock. Address COLE BROS., box 577, Peoria, Ill.

WANTED—A salesman in store who has also had experience in growing stuff; good reference required. Apply HOOL FLORAL CO., Ithaca, N. Y.

WANTED—Interest in or charge of greenhouse, commercial or private, by young man, married, German; thorough in all branches, in German and American growth. Foreman for 10 years in one place. Good references. Address A C L, box 14, Caln, O.

FOR SALE—Four greenhouses, well stocked, with very valuable piece of ground, reason for selling old age. Address WM. SPRINGHORN, Dubuque, Ia.

FOR RENT—At Riverside, Ill., greenhouses, boiler, pipes; all in running order. Rent cheap. Call or address PETER READEY, 1011 Ogden Ave., Chicago.

FOR SALE.

1. Six Section Carmody's Champion boiler; 21 Carmody's sash lifters with two wheels and attachments. The above have been in use one year and are in perfect order. 30 Hotbed Sash, Coleman's patent, 3x6, 3 runs; 15 never been used; 15 been used about two months. Well painted with two coats of white lead and oil; all Cypress. 225 feet 2 inch pipe, 500 feet 1¼ inch pipe. Plenty Tees, Elbows, Unions, Reducers, etc. 16 Ventilating sash all cypress. 700 or 800 feet of cypress greenhouse bars. 2000 feet of glass, 12x12 D thick, 12x18 sing S. In fact two greenhouses with all their equipment for sale at a bargain. Take note of this brother Florists in New Orleans, Birmingham, Vicksburg, Mobile and Atlanta. You will never see a better chance than this. All this equipment is new, not thrown out because it is too old and out of date. I sell because I am tired of digging in the dirt, and sick of fighting so many pests.

GEO. W. STAPLE, Meridian, Miss.

For Sale.

Ten shares of the A. T. De La Mare Printing and Publishing Co., Lt'd, (*Florists Exchange*). Apply to

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Our stock is large and handsome, consisting of 70 to 75 varieties, including the very newest kinds.

ROOTED CUTTINGS, in 30 to 40 varieties, (our selection), at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.

NEW KINDS, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.

Golden Verschaffeltii and **Mrs. I. D. Haight** (yellow), at $8.00 a 1000. *We will include* at least 50 cuttings of the *new kinds* in every 1000 purchased.

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A large stock of **BUTTERCUP** in prime condition.

Rooted Cuttings, $5.00 per 100; $15.00 per 1000. Prices of other kinds on application.

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Roses. Roses. Roses.

We have a very fine stock of the following plants, from 2-inch pots, which we are pleased to offer.

	Per 100		Per 100
AM. BEAUTY, -	$7.00	KAISERIN, - -	$4.00
BRIDESMAID, -	5.00	PERLES, - -	3.50
LA FRANCE, - -	3.50	WOOTTONS, - -	3.50
ALBANY, - -	3.50	MME. HOSTE, -	3.50
BRIDES, - -	3.50	BENNETTS, - -	3.50
MERMETS, - -	3.50		

CHRYSANTHEMUM PLANTS, (Send for our list) - $3.00 per 100

This stock is all grown from the best and strongest wood, and we are certain that it will give satisfaction.

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We offer the following very choice plants in 2-inch pots:

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Am. Beauties,	**$7 00**	**Mermets,**	**$3 50**
Bridesmaids,	**5 00**	**Perles,**	**3 50**
Kaiserin,	**4 00**	**Woottons,**	**3 50**
La France,	**3 50**	**Mme. Hoste,**	**3 50**
D'ch. of Albany,	**3 50**	**Bennetts,**	**3 50**
Brides,	**3 50**		

The above stock is very strong and healthy, and propagated from selected wood. We raised the above to grow for ourselves, and it will give better satisfaction than stock which has been raised simply to sell.

BASSETT & WASHBURN,

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We offer the following very choice

Plants in 2 1-2 inch pots.

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AM. BEAUTIES,	$6 00	MERMETS,	$3 50
LA FRANCE,	3 50	PERLES,	3 50
DUCHESS OF ALBANY,	3 50	WOOTTONS,	3 50
BRIDES,	3 50	PAPA GONTIERS,	3 50
		METEORS,	3 50

The above stock is very strong and healthy, and propagated from selected wood. We raised the above to grow for ourselves, and it will give better satisfaction than stock which has been raised simply to sell.

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Mermets, Testouts, La France.

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Geraniums, Mme Sallerol, very stocky, 2-inch	$ 1.50
" Bronze, strong, 2-inch	3.00
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Coleus, splendid assortment, 2-inch	2.00
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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Catalogues Received.

Nathan Smith & Son, Adrian, Mich., chrysanthemums and carnations; Stephen Hoyt's Sons, New Haven, Ct., grapes; J. Chas. McCullough, Cincinnati, O., seeds and plants; Nanz & Neuner, Louisville, Ky., seeds and plants; Wm. G. McTear, Princeton, N. J., chrysanthemums; Letellier & fils, Caen, France, nursery stock and plants; Schlegel & Fottler, Boston, seeds and plants; Vilmorin-Andrieux & Co., Paris, France, seeds and bulbs; Oasis Nursery Co., Westbury Station, N. Y., tuberous begonias, hardy perennials, shrubs, etc.; Northrup, Braslan, Goodwin Co., Minneapolis, Minn., seeds; L. Green & Son, Perry, O., nursery stock; Henry W. Ash, West Union, Ia., nursery stock; Chas. T. Starr, Avondale, Pa., plants and bulbs; V. Lemoine & fils, Nancy, France, plant novelties; L. E. Archias & Bro., Fayetteville, Ark., seeds; Henry A. Dreer, Philadelphia, seeds and plants; Webster Bros., Hamilton, Ont., plants and seeds; Wm. Rennie, Toronto, Ont., seeds and plants; W. Atlee Burpee & Co., Philadelphia, Pa., seeds, live stock and poultry.

DETROIT, MICH.—Quite a little ripple has been caused in the trade here by the action of a "leading" florist, who, in his philanthropic endeavors for the advancement of horticulture, is advertising various palms, including chamærops, seaforthias and kentias, rubber plants and "Australian fir trees" in 5-inch pots (araucarias?), all for 25 cents each. It is hoped, for the benefit of buyers, that he throws in a pocket microscope with each plant.

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Galax Leaves.
You cannot afford to be without them if you sell Cut Flowers and Decorate. Especially for Christmas. Big money in them. I sold 300,000 in 3 months last winter. $2.00 per 1000 by express. Sample 100 sent by mail on receipt of 50c.
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ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
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FINE STRINGS OF
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8 to 10 feet long, 50 cents a string
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4,000,000 EVERGREEN CUT FERNS
ESPECIALLY FOR FLORIST'S USE.
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Wild Smilax,
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Meteor Bridesmaid, Testout	5.00@ 7.00
Carnations, long, white	1.00@ 2.00
" " colored	1.50@ 2.00
" short	.75@ 1.00
Smilax	15.00
Callas, Harrisii	12.50
Romans, Paper White Narcissus	2.00@ 3.00
Violets	1.00@ 1.50
Lily of the Valley	4.00@ 5.00
Adiantum	1.00
Ferns, common per 1000 $2.50	.25

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WIRE WORK A SPECIALTY.
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Roses, Bon Silene, Gontier, Niphetos	3.00
" Perle	4.00
" Mermet, Bride	3.00@ 6.00
" Cusin, Watteville	3.00@ 6.00
" Hoste	3.00@ 6.00
" La France	6.00@12.00
" Meteor	4.00@10.00
" Bridesmaid	8.00
" Beauty	5.00@50.00
" Hybrids	15.00@35.00
Carnations	.75@ 3.00
Mignonette	2.00@10.00
Hyacinths, Narcissus	1.00@ 3.00
Valley, Tulips	1.00@ 3.00
Violets	.75@ 1.25
Harrisii	6.00@12.00
Smilax	10.00@15.00
Adiantum	1.00@ 1.50
Lilacs, per bunch	1.00@$1.50

BOSTON, Feb. 10.

Roses, Niphetos	3.00
" Gontier	4.00
" Perle, Sunset	5.00@ 6.00
" Bride, Mermet	6.00@16.00
" American Beauty	8.00@50.00
Carnations	1.00@ 2.00
" fancy	3.00@ 4.00
Lily of the valley	1.00@ 4 00
Roman Hyacinths, Freesia	1.00@ 1.50
Trumpet narcissus, Daffodils	2.00@ 4.00
Callas, Harrisii	6.00@10.00
Mignonette	2.00@ 8.00
Violets	65@ 1.00
Pansies, Myosotis	1.00
Tulips	2.00@ 4.00
Adiantum	1.00
Smilax	12.50
Asparagus	50.00

PHILADELPHIA, Feb. 10.

Roses, Perle, Gontier, Niphetos	3.00@ 4.00
" Cusin, Watteville, Hoste	4.00@ 5.00
" Bride, Mermet, La France	6.00@ 8.00
" Kaiserin, Bridesmaid, Testout	6.00@10.00
" Belle, Beauty	25.00@35.00
" Laings	20.00@25.00
" Brunner	40.00@50 00
Carnations, H. Keller	6.00
" Ophelia, Sweetbrier, Daybreak	2.00@ 3.00
" Edna Craig	2.00@ 3.00
Valley	3.00@ 4.00
Romans, Paper white	2.00@ 4.00
Daffodils	3.00@ 5.00
Smilax	12.00@15.00
Adiantum	1.00@ 1.50
Violets	1.00@ 1.50
Mignonette	1.50@ 2.00
Asparagus	50.00@75.00
Harrisii lilies	10.00@12.00
Callas	6.00@ 8.00
Freesia	1.00@ 1.50
Tulips	4.00@ 5.00
Cattleyas	40.00

CHICAGO, Feb. 13.

Roses, Perle, Niphetos, Gontier	3.00
" Bride, Mermet, La France	3.00@ 4.00
" Wootton, Meteor, Bridesmaid	4.00@ 6.00
" Beauty	10 00@35.00
" Mixed	3.00
Carnations, long	1.00@ 1.50
" fancy	2.00
" short	.75
Valley, Romans, narcissus	2.00@ 3.00
Tulips, Daffodils	3.00@ 4.00
Tulips, fancy	5.00
Dutch hyacinths	5.00@ 8.00
Violets	1.00@ 1.50
Callas, Harrisii	4.00@ 8.00
Mignonette	1.50@ 2 00
Smilax	8.00@15.00
Asparagus	50.00
Orchids	15.00@50.00

CINCINNATI, Feb. 10.

Roses, Beauty	35 00@75 00
" Mermet, Bride	5 00@ 6.00
" Perle	3.00@ 4 00
Narcissus Von Sion	4.00
" Trumpet Major, Paper white	3.00
Callas, Harrisii	8.00
Valley	3.00@ 4.00
Romans	2 00
Violets, pansies	1.00
Asparagus	50.00
Smilax	10.00@15.00
Adiantum	1.00

BUFFALO, Feb. 12.

Roses, Beauties	15.00@25.00
" Mermet, Bride	5.00@ 7.00
" Bridesmaid, La France	8.00@10.00
" Gontier, Perle, Niphetos, Hoste	4.00@ 5.00
" Cusin, Watteville	5.00@ 6.00
" Meteor	6.00@10.00
Carnations, long	1.50@ 2.00
" Daybreak	1.50@ 2.00
" short	.75@ 1.00
Hyacinths, Narcissus	2.00@ 3.00
Tulips, daffodils	3.00@ 4.00
Violets	1.00@ 1.25
Valley	3.00@ 4 00
Callas Harrisii	8.00@12.00
Smilax	12.00@15.00
Adiantum	1.25
Asparagus	50.00

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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

MR. CHAS. BATES is no longer with the house of Vilmorin, Andrieux & Co. of Paris.

FROM May 1st until September 30, next there will be held a horticultural exhibition in Erfurt in connection with industrial exhibits. Great efforts are being made to make it a success.

OUR trade directory and reference book for 1894 will be issued next month. Send your order now for a copy. Price $2.

Baltimore.

Surely, if mild weather will do it, we should have a great crop of flowers Easter; for, although now and then comes a day or two of severe frost, the weather generally is very mild, and a few days this week would have passed respectably for part of May.

Tulips are in plentiful supply, roses and carnations are coming in freely. Philadelphia is unloading valley, Romans, etc., on us in quantity, and altogether, the prospects of more or less of a glut before Easter seem more probable every day.

The Exchange has moved again, to 229 Park street this time, where new counters, ice box, and cashiers desk, all finished in cherry and brass give a tone to the business, and provide a suitable setting for a jewel of a manager and the beautiful products of the Baltimore county greenhouses. It is a great improvement in every way.

Why do we never see a registering thermometer in a greenhouse? Is it any less necessary to know the extremes of daily temperature in them than it is in breweries and other places where they are used?

Mr. R. J. Halliday's many friends will be pleased to hear that, though still far from strong, he is sufficiently recovered to be at his store. MACK.



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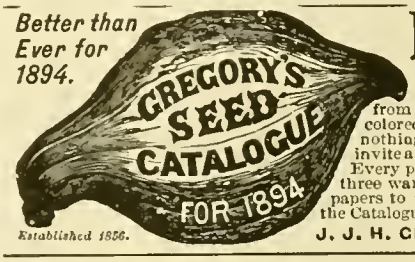
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Is Different from Others.

It is intended to aid the planter in selecting the Seeds best adapted for his needs and conditions and in getting from them the best possible results. It is not, therefore, highly colored in either sense; and we have taken great care that nothing worthless be put in, or nothing worthy be left out. We invite a trial of our Seeds. We know them because we grow them. Every planter of Vegetables or Flowers ought to know about our three warrants; our cash discounts; and our gift of agricultural papers to purchasers of our Seeds. All of these are explained in the Catalogue, a copy of which can be yours for the asking.

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GLADIOLUS, Dark mix 1st size, $8.00; 2d size, $6.00; 3rd size, $1 per 1000.
TUBEROSES, 1st size, $8.00; 2d size $1.00.
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DOUBLE DAHLIAS, 6 var. whole roots $8.00 per 100
CANNAS, 7 var. $4.00 per 100.

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This will not appear again.

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PALM SEEDS (from California and Australia).
TREE FERN STEMS.
FREESIAS. We will have a million of FREESIAS running from 7-16 to ¾ of an inch.
CALLAS. Dry roots in all sizes.
LIL. LONGIFLORUM.
CALIFORNIA SMALL BULBS.
Brodiæas, Calochortus, Fritillarias.

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LILIUM LANCIFOLIUM (SPECIOSUM) RUBRUM at $36 per 1,000. Strong Bulbs, size 8-10 inches circumference.

CLEMATIS assorted. Leading kinds. Strong plants. 5 to 6 feet high; 3 to 6 shoots at $200 per 1,000. Ditto. Second size. 4 to 6 feet. 1 to 3 shoots at $160 per 1,000.

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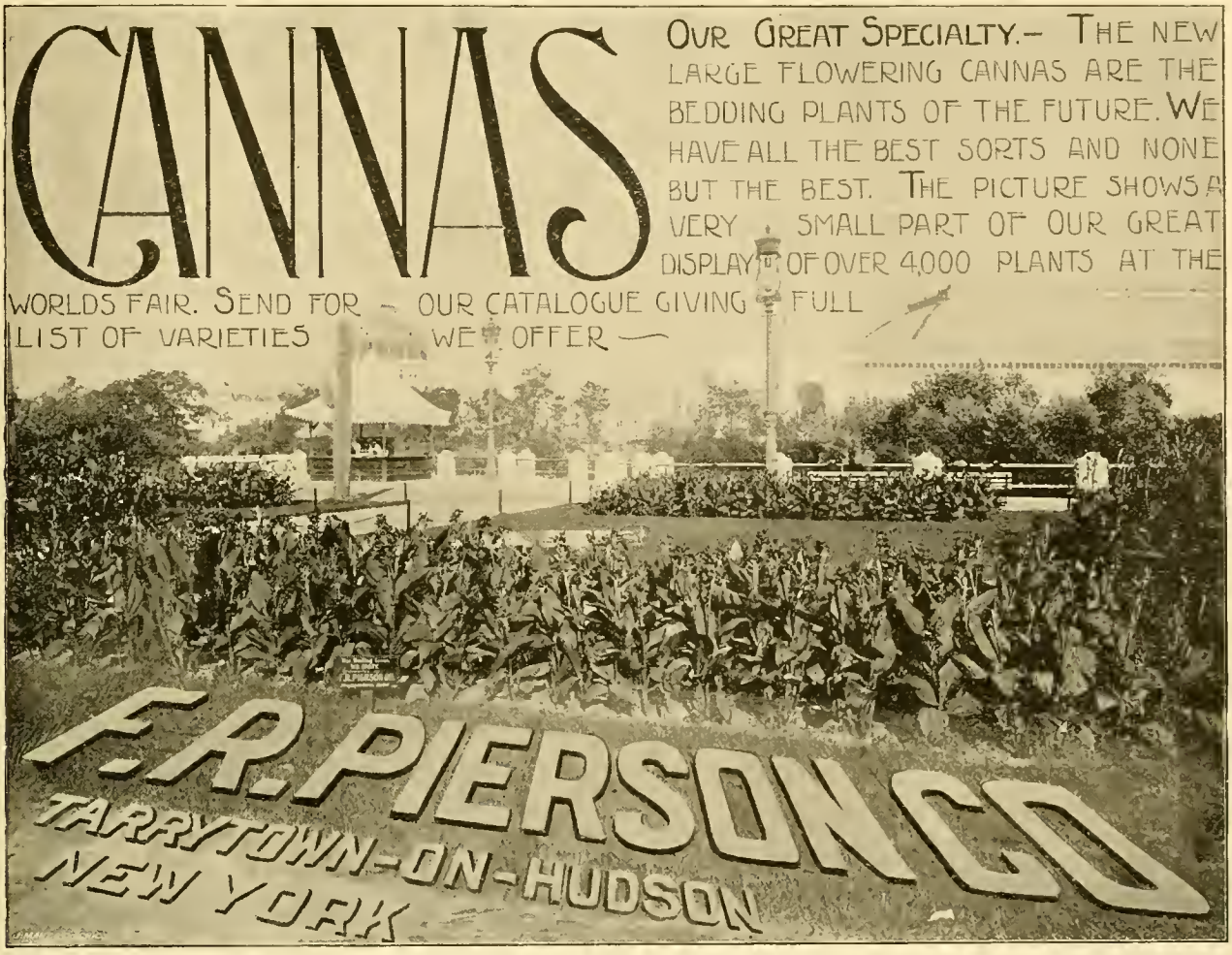
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	Per 100	Per 1000
LILIUM SPECIOSUM ALBUM	$ 6.00	
" " ROSEUM	5.00	
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SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors	4.00	35.00
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PLANT FERRY'S SEEDS this year, and make up for lost time. **Ferry's Seed Annual** for 1894 will give you many valuable hints about what to raise and how to raise it. It contains information to be had from no other source. **Free to all.**

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HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

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THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

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SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" " " rooted cuttings	1.25	10.00
Genera collection, named, " "	1.00	8.00
" " " 2¼-inch pots	2.50	20.00
H. P. Roses, dormant, strong	6.00	75.00
Ten " " "	6.00	50.00
Forcing " 3-inch pots, "	6.00	50.00

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The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown, and are fine and stocky. Finest mixed, by Express, $5.00 per 1000; 5000 $20.00; 10,000 $35.00. Small plants by mail, 60c. per 100.

Seed, pure white, yellow or mixed, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.

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Ottawa, Canada.

The fifth annual dinner of the Ottawa Gardeners' and Florists' Club was held in the Queen's restaurant in the capital on Monday night, and proved the most successful yet enjoyed by the club. Mr. H. F. Sims, president of the society, occupied the chair, the croupiers being Mr. Charles Scrim and Mr. James Hickey, vice-presidents. About 50 members were present, and after a rich menu card had been discussed with self evident appreciation, a lengthy programme of toasts and music was entered upon. After the usual preliminary toasts had been disposed of matters of vital importance and great interest to the club and the profession generally were talked over. Among the subjects before the company were "Horticultural interests," "Central Canada Fair Association," "Gardeners' and Florists' Club," "The press" and other subjects. Each of these received careful handling by the different speakers. These remarks were interspersed with songs and recitations, while at intervals a full orchestra rendered a number of pieces during the evening. The affair was pronounced by all to be an unqualified success. M.

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LOIS C. HAETTEL, New White. } Write for prices.
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Carnation florets always in season.

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NOW READY.

FINE, CLEAN, HEALTHY STOCK. SPECIAL PRICES to large buyers of these splendid Carnations.

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50,000 Carnations.

ROOTED CUTTINGS READY.

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CARNATIONS.

ROOTED CUTTINGS.

DAYBREAK, $2.50 per 100, $20.00 per 1,000.
SILVER SPRAY, McGowan
GARFIELD, $1.50 per 100, $9.00 per 1,000
TIDAL WAVE, $1.75 per 100, $12.00 per 1,000
PORTIA, HELIOR.
LADY EMMA, $1.25 per 100, $8.00 per 1,000

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Varieties good. Cuttings good. Lizzie McGowan, Silver Spray, Aurora, Grace Darling, Portia and J. R. Freeman, at $1.25 per 100; $10 per 1000. Fred Dorner, $2.00 per 100; $12.50 per 1000. Daybreak, at $2 50 per 100; $20 00 per 1000. Edna Craig, $3.00 per 100; $25.00 per 1000.

Annie Pixley and Helen Keller.

PIXLEY is one of those beautiful light pinks, with a fair sized flower and good, strong calyx. With ordinary culture stems can be cut twenty inches long. The flower is a model in form, and the growth is strong and healthy.

KELLER you know all about, they are both sure to make good paying varieties for cut flowers.

Pixley per 100, $12.00; per 1000, $100.00.
Keller per 100, $12.00; per 1000, $90.00.

Verbena Lancaster Beauty.

Decidedly the prettiest Verbena that grows, novel as well as beautiful and sells at sight.

Price, per 100, $2.00.

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L. B. 496. ALBERT M. HERR, LANCASTER, PA.

EVERYBODY who sees the new and beautiful Fancy Carnation "HELEN KELLER"

are favorably impressed with it, and generally leave an order.

HERE IS A SAMPLE LETTER from a Carnation expert—C. H. ALLEN, Treas. Am. Carnation Society:

"After seeing the Carnation 'Helen Keller' growing at your place, I have concluded to order five hundred (500) plants. My only regret is, that I have not house room enough to warrant me in ordering three thousand (3,000), as the general habit of the plant, the size, coloring, and substance of the flower is in my opinion bound to make it a money maker."

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EDWIN LONSDALE, CHESTNUT HILL, PHILA. or JOHN N. MAY, SUMMIT, N. J.

The Jacqueminot Carnation . .

IS A PERFECT SUBSTITUTE FOR THE JACQUEMINOT ROSE.

Many buy it in preference because of its lasting qualities, and you can have it in bloom when the rose is out of season. Send for descriptive circular, enclose 10c. and we will mail you long stem sample bloom. The color is a bright crimson (no black in it). If the blooms look dull on arrival, they have been chilled or frozen. Notify us, we will ship again.

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UNCLE JOHN, white; THE STUART, scarlet; E. A. WOOD, pink variegated; GOLDFINCH, yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from Headquarters. We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Eliz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.

Send for price list.

F. DORNER & SON, La Fayette, Ind.

CARNATIONS . . .

Rooted Cuttings Now Ready.

Daybreak, $2.00 per 100; Tidal Wave, J. J. Harrison, Fred Creighton and Mrs. Ferdinand Mangold, $1.50 per 100; Lizzie McGowan, Ferdinand Mangold, Nellie Lewis, Garfield and Hinze's White $1.00 per 100; $9.00 per 1000. Cash Must Come with Order.

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WM. SCOTT —AND— GOLDFINCH.

The former is the most prolific carnation we ever grew. It produces fully double as many perfect blooms as any other carnation we have ever seen. Of a most beautiful delicate pink, easy to grow and quick to sell. Goldfinch is a boon to florists for who does not need a good yellow; one that is sure to produce abundantly, large perfect flowers. Such as one we believe Goldfinch to be. Send for prices on these and all other leading carnations in the market.

GEO. HANCOCK & SON, Grand Haven, Mich.

LET US book your order now for a copy of our new trade directory and reference book to be issued next month. Price $2.

Mention the American Florist when writing to advertisers on this page.

CARNATIONS

Rooted Cuttings, Now Ready.

	Per 100	Per 1000
DAYBREAK	$3 00	$25 00
BUTTERCUP	4 00	35 00
PURITAN	2 00	15 00
SILVER SPRAY	1 50	10 00
LIZZIE McGOWAN	1 50	10 00
GRACE WILDER	1 50	10 00
PORTIA	1 50	12 00

Cash with order. 10c. per 100 extra when ordered shipped by mail.

Send for wholesale price list of Rooted Cuttings and Plants.

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It's a Gem! What?

Ada Byron Carnation.

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Of the New and Standard varieties.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

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The Yellow Carnation Bouton d'Or

WHAT WE CLAIM:

That it is decidedly a good, strong grower and free bloomer; color a beautiful yellow penciled with dark carmine. That it is of the best form and fully as large as Buttercup. That the calyx is perfect, the stem long and stiff, and the foliage possibly better than that of any other carnation. **Testimonials from the Largest Retailers in New York City.**

New York, Feb. 1, 1891.

Messrs. Dailledouze Bros., Flatbush, L. I.

Gentlemen—Your new Carnation "Bouton d'Or" is certainly the best of its color as yet in market, it possesses all the good qualities to make it desirable, viz large flower, stiff stem and splendid keeper. It will always be in demand in the retail trade. Signed Yours truly,
CHAS. THORLEY.

New York, Jan. 26, 1894.

Messrs. Dailledouze Bros.

Gentlemen—I have been handling your Yellow Carnation Bouton d'Or over a year, and consider it the best yellow carnation in cultivation. That it is a favorite with the public goes without saying, as I have never been able to keep it in my store long enough to tell it keeping qualities.
Signed Yours truly, CHAS. A. DARDS.

New York, Jan. 20, 1891.

Messrs. Dailledouze Bros.

Dear Sirs—I wish to testify to the good qualities of Bouton d'Or Carnation. Its the best yellow I have yet seen. It has proved to be a good seller, a fine keeper. We want more of it. Signed Respectfully yours,
P. L. BOGART, 907 6th Avenue.

New York, Feb. 5, 1894.

Messrs. Dailledouze Bros.

Gentlemen—We find your Bouton d'Or a first-class yellow carnation *more solid* than the Buttercup and better than any yellow we have handled.
Signed Cordially, WM. A. BROWER & SONS.

Messrs. Dailledouze Bros. January 25, 1894.

Gentlemen—We wish to compliment you on the qualities of your new yellow carnation Bouton d'Or. It is the best yellow carnation we have eve handled; being a splendid keeper, sells on sight, and will always be in demand. [Signed] Yours truly, J. H. SMALL & SONS.

"Bouton d'Or is certainly a good grower and free bloomer; a variety one can recommend with pleasure. I like it better than Buttercup."
W. ALBERT MANDA.

"Bouton d'Or is just the one we have been looking for, and is the nearest approach to the ideal carnation in its color yet introduced. The color is a clear canary penciled with carmine, firm texture, a full large flower—one just measured is three inches in diameter—exceedingly prolific as a bud maker; stems stout with clean, healthy foliage. I congratulate you in disseminating so grand a flower." SAMUEL HENSHAW.

All the best growers in the vicinity of New York City can be found on our books with orders from 500 to 1000 and upward. All the Carnation growers who see it grow order freely. Orders filled in strict rotation from March 1.

ROOTED CUTTINGS—Price $2 00 per doz.; $10.00 per 100; $75 per 1000; 250 at thousand rates.

DAILLEDOUZE BROS.,
FLATBUSH, NEW YORK.

GRAND CARNATIONS

ROOTED CUTTINGS.

	Per 100	Per 1000
WM. SCOTT, fine clear pink	$5.00	$40.00
GOLDFINCH, yellow, edged pink, strong, healthy, very free	10.00	75.00
HELEN KELLER, white marked pink	12.00	90.00
ANNIE PIXLEY, light pink, fine	12.00	90.00
UNCLE JOHN, large, fine white	10.00	75.00
THE STUART, brilliant scarlet, good.	10.00	75.00
E. A. WOOD, pink variegated, fine.	10.00	75.00
DORNER'S SET OF 1893.	5.00	40.00

Daybreak, Edna Craig, Tidal Wave, Thos. Cartledge, Silver Spray Emily Pierson, Puritan, Nancy Hanks, McGowan, and all the other leading varieties.

LARGE STOCK READY NOW.

Send for prices.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE,

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000. Send for price list.

EDW. SWAYNE,
KENNETT SQUARE, PA.

ROOTED CUTTINGS OF
CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chester Co., PA.

Carnations==Panic Bargains

	Per 1000		Per 1000
Lady Emma or Portia	$ 10.00	Puritan	$ 15.00
White Dove	10 00	Pearl	20.00
Lizzie McGowan	10 00	Edna Craig	20.00
Schaffer	10 00	Daybreak	20.00
Grace Wilder	10.00	Thos. Cartledge	20.00
Mrs. Robt. Hitt	10.00	Mayflower	20.00
Grace Darling	10.00	Hector	20.00
White Wings	10.00	Amy Phipps	25.00
Crimson Coronet	10.00	Blanche	25.00
Golden Gate	10 00	Mrs. E. Reynolds	25.00
American Flag	10.00	Richmond	25.00
Attraction	15.00	Wabash	25.00
J. J. Harrison	15.00	Western Pride	25.00
Aurora	15 00	Dr. Smart	25.00
Louise Porsch	15.00	Purdue	25 00
Nellie Lewis	15.00	Florence Van Reyper	25.00
Orange Blossom	15.00	Buttercup	35.00
Tidal Wave	15.00	New Jersey	25.00

ROOTED CUTTINGS OF VERBENAS, $7.00 per 1000.

Strictly Cash with order. Orders filled in rotation.

ESSEX HEIGHTS FLORAL CO., BELLEVILLE, N. J.

Rooted Cuttings. **CARNATIONS.** Rooted Cuttings.

ALL THE BEST VARIETIES IN CULTIVATION.

FINE STOCKS OF DAYBREAK, EDNA CRAIG AND CARTLEDGE.

NO DISEASE! NO RUST!

Catalogues ready January 1st, '94. Correspondence solicited.

Address **H. E. CHITTY, Paterson, N. J.**

CARNATIONS.

Strong, healthy, well rooted cuttings now ready.

SAMUEL J. BUNTING,
Elmwood Ave. and 58th St., PHILADELPHIA, PA.

CARNATIONS AND VERBENAS.

ROOTED CUTTINGS.

We have a large stock of Daybreak, Puritan, Edna Craig, Aurora, McGowan, Nellie Lewis, and other leading varieties. Also immense stock of Mammoth Verbenas.

Send for prices on what you want. Catalogue ready about January 15th. Send for it.

VICK & HILL, Rochester, N. Y.

Toronto.

Lent is upon us and this pious city has put on sack cloth and ashes for a period of 40 days. Such frivolities as are dispensed at florists' stores will receive scant attention except from the few who delight in decorating their friends and relations who have departed this life with crosses, anchors, pillows, broken columns, etc. Of course there is always something doing, especially with the old established florists who have regular customers. All of us manage to get three meals a day with now and then a few extras thrown in.

Your correspondent has lately been in receipt of a good deal of abuse for not giving *full* particulars of the state of the trade here in his weekly notes. Well! he is quite willing to confess to the truth of the allegation, but he wants to know what good it would have done to the allegators or any one else supposing he had done as they desired beyond the pleasure of seeing other men abused in print and making bitter feelings more bitter still (which would not be good for them after all). He thinks that he may possibly be making a mistake in going even this far, but in order to make things clear would say that if a wholesaler chooses to start a retail store it is nobody's business but his own (the wholesaler's); if another man chooses to retaliate that is his (the retaliator's) business and nobody else's. He questions the good policy of both, but is confident that the more these matters are left alone (at least in public print) the sooner they will find their proper level and the better it will be for all concerned. After all, florists are only human, like other men, and want to make as much money in as short a time as possible, but the question comes in whether they could not make more money if in harmony with each other than by all being at cross purposes.

The idea of having a florists' section of the Gardeners' and Florists' Association, which has been mooted, seems to be a good one, and if the florists meet together firmly resolved to bury their private feelings and petty jealousies they can improve the present state of things, but if they meet with no ideas outside of self and each one's own narrow little world why it would be better not to meet at all. Sacrifice of bitter personal feelings is absolutely necessary in order to do any real permanent good to the trade at large. Let us all get out on to the broad expanse where we can do some good to our neighbor as well as to ourselves, it won't cost us anything (in money), there is much to be gained and we shall feel ever so much better for it. E.

Rooted Cuttings.

100 Coleus, 10 kinds by mail **60c**

Shelly's Yellow and Verschaffeltii,

By Express.....$5 00 per 1000.
With 12 other good kinds 4 00 per 1000.

ALTERNANTHERA P. Major and Aurea Nana, by mail, 50c. per 100.
Sample dozen by mail, 10c.

S. O. STREBY,
Lock Box 77.
UPPER SANDUSKY, OHIO.

When writing to any of the advertisers on this page please mention the American Florist.



WHY do so many Canna Growers say they have a YELLOW Canna "As good as Florence Vaughan?"

Our Spring Book for Florists, complete in all lines, is now being mailed. Write for it if you are not on our lists. It is worth asking for.

VAUGHAN'S SEED STORE,
New York. CHICAGO.

Olea Fragrans.

MAGNOLIA FUSCATA, CAPE JASMINE, CASUARINA, RED CATTLEY GUAVA, PITTOSPORUM, CAMPHOR TREES, ORANGES and LEMONS, grafted on dwarf stock.

2,000 BIOTA Aurea Nana, our new dwarf Golden Arbor-vitæ, a perfect gem.

Send for trade list, giving prices for other desirable florist's stock.

ADDRESS **P. J. BERCKMANS,**
Fruitland Nurseries, **Augusta, Ga.**

Palm Seeds
LATANIA BORBONICA.

We have just received a consignment, the quality of which we can guarantee, it being the pick of the new crop.

PRICE: 65 cts. PER LB. BY MAIL; $40 PER 100 LBS. BY EXPRESS OR FREIGHT.

Order at once and insure your supply of plants for next season.

The American Exotic Nurseries,
R. D. HOYT, Mgr. Seven Oaks, Fla.

SMILAX.

CUT SMILAX—Half an acre ready to cut now. Quality A 1.

EASTER ORDERS BOOKED NOW.

SMILAX PLANTS—Extra strong 1 yr. old, $2.50 per 100; $20 00 per 1000.

TRANSPLANTED SEEDLINGS—$1.00 per 100; $8 00 per 1000.

SMILAX SEED—A few ounces left; crop of 1893, at 50c. per ounce.

JOS. E. BONSALL,
WHOLESALE FLORIST,
308 Garfield Avenue, SALEM, OHIO.
Mention American Florist

Rooted Cuttings.

Carnations, Chrysanthemums, Coleus, Etc.

Standard varieties and novelties. At prices to suit the times. Send for list

JOHN J. CONNELLY, Bryn Mawr, Pa.

ROOTED CUTTINGS. Per 100

Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Coleus of sorts, mixed	.50
" best new and old, named	1.00
Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00
Fittonia, red veined, $2 00; silver veined	1.50

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted. Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't.....$3.00 and	4 00
Abutilons, assorted	4.00
Echeveria glauca$2.00 and	3.00
Extensa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted.....$2.00 and	3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Antherieum picturatum.....per dozen, 75c.	
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00
Silver-Leaf Geraniums, 3 varieties (no Mme. Salleroi)	4.00
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ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.

Siebrecht & Wadley,
ROSE HILL NURSERIES,
NEW ROCHELLE, N. Y.

Palms, ORCHIDS, Roses, and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 25 Greenwich St., New York City.

ORCHIDS SUITABLE FOR THE TRADE

The Leading kinds for cut flower purposes.

I. FORSTERMAN,
NEWTOWN, L. I., N. Y.

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A New Plant CALLED

Lychnis flos cuculi plenissima Semperflorens.

We are the first to offer this novelty in the United States. It is a variety which defies all description as regards rich bloom and the beauty of its delicate rose colored flowers. Valuable for a winter bloomer, the originator had flowers from it in profusion during the whole wiuter without any special care, it is perfectly hardy and will bloom from spring uutil frost and grows only 12 to 18 iuches high. An important testimony to the value of the plant is the fact that wherever it has been exhibited it has been awarded a prize, and at Eberswalde, Euten, Berlin and Hamburg was awarded a silver medal. A cut and full description of plant will be sent on application. **Price $3.00 per dozen.**

California Privet, 3 to 4 ft. $65 per 1000.
California Privet, 2 to 3 ft. $50 per 1000.
California Privet, 2 to 2½ ft. $10 per 1000.
California Privet, nicely branched 18 to 24 inches $30 per 1000
California Privet, lighter, $25 per 1000.
California Privet, 12 to 18 in. $18 per 1000.
Large Shrubs, several varieties, $6 per 100.
Climbing Honeysuckles, firstclass, $6 per 100.
Climbing Honeysuckles small, for planting in nursery, $1.50 per 100.
Clematis 2 and 3 yrs. old $20 and $25 per 100.
H. P. Moss and Persian Yellow Roses, $8 per 100.
Climbing Roses, strong, $7 per 100.

Industry Gooseberry 3 yrs $10 per 100

Currants, blk. Naples & Lees Prolific $2 per 100.
Plums or Peach, firstclass, $10 per 100.
Plums or Peach, light, $5 per 100.
Apricots on Peach, $5 and $7 per 100.
Quinces, Orange 18 to 24 in. $3 per 100.
Quinces, Orange, 2 to 2½ ft. own roots $5 per 100
Wanted Sugar, Norway and Silver Maples all sizes.

The Elizabeth Nursery Co.,

ELIZABETH, N. J.

—20— CYCAS REVOLUTA STEMS,

Just arrived in splendid condition. Fine, straight, dormant Stems of about 10 inch diam., will make

PRIZE TAKERS AS EXHIBITION PLANTS.

1, 50-in. long	abt.	125 lb	$20.00	1, 38-in. long	abt.	86 lb	$13.50
1, 51 " "	"	121 "	20.00	1, 42 " "	"	86 "	13.50
1, 42 " "	"	104 "	17.50	1, 37 " "	"	83 "	13.00
1, 44 " "	"	93 "	15.00	1, 37 " "	"	85 "	13.00
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1, 38 " "	"	93 "	15.00	1, 44 " "	"	81 "	12.50
1, 38 " "	"	88 "	13.50	1, 40 " "	"	77 "	12.00
1, 50 " "	"	86 "	13.50	1, 43 " "	"	76 "	12.00
1, 43 " "	"	86 "	13.50	1, 30 " "	"	74 "	11.50
				1, 42 " "	"	70 "	10.50

Have your pick as long as stocks hold out.

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August Rölker & Sons,

136 & 138 W. 24th St., New York.
P. O. Station E.



Send for Special Trade.

List of Palms, Tropical Plants, Economic and Decorative Plants, etc. gathered from the four corners of the earth. Large illustrated catalogue free.

We want in exchange, miscellaneous sorts of Roses. Small ones. Send list of what you have to offer with price.

REASONER BROS. Oneco, Fla

To Make Room. Per 100

Geraniums, full cuttings, in var., 4-inch..... $5 00
" many new sorts, in var 2½-inch 3 00
Cineraria hyb. grand., mxd, 2½-inch..... 4 00
(Above just ready to shift for spring sales.)
Lettuce Plants (cold frame).....300 for $1 00. 40

R. A. McPHERON, Litchfield, Ill.

N. B —Will exchange stock for NEW vars. Carnation.

WANTED 2000 GERANIUMS, Rooted Cuttings, all named vars., true. Send list of varieties and sample of stock with prices.

DRUMM SEED AND FLORAL CO.,
800 Main St., Fort Worth, Texas.

ALTERNANTHERA.

Strong, rooted cuttings, propagated last fall.
P. MAJOR, best red $6 00 per 1000
A. NANA, best yellow..... 5.00 per 1000

HEITE FLORAL CO., Kansas City, Mo.

VICK'S NEW DOUBLE WHITE ANEMONE "WHIRLWIND."



A Double White Anemone is something entirely new. Proven by five years' trial to be permanent and perfectly hardy; habit like the well known White Japan Anemone—same strong growth and healthy foliage, and more abundant bloomer. Flowers two and a half to three inches across, have several rows of white sepals, and flowers last much longer than those of the single variety. Plants from two and a half to three feet high

HARDY, STRONG AND FREE BLOOMER,

decided advantages, and must make a demand for it on all ornamental grounds. Especially recommended for exposed situations and cemetary planting, where it is inconvenient to give winter protection. Strong plants ready for blooming.

NOVELTIES.
Branching Aster,
(Often sold for Chrysanthemum.)
Hibiscus, Sunset.
Dahlia, Ethel Vick.
Large Morning Glories.
Double Anemone. Charmer Pea.
Maggie Murphy and other Potatoes.

For Special Prices write to

JAMES VICK'S SONS,

725 East Ave., Rochester, N. Y.

Hydrangea Paniculata Grandiflora

THE MOST VALUABLE OF ALL HARDY FLOWERING SHRUBS.

Get the Best Plants
At the Lowest Prices.
Get them at headquarters.

Choose from the Largest Stock in America.

One Year, 12 x 15 inches, fine, ...	$3.50 per 100;	$30.00 per 1000
Two Years, 3 x 3½ feet, fine, ...	4.00 "	35.00 "
Two Years, extra seleeted, 3 x 3½ feet, strong, . .	5.00 "	45.00 "
Three Years, 3 feet, strong, nicely branched, twice transplanted, ...	6.00 "	50.00 "

Packed in best manner and delivered to Express or Railroad free of charge on receipt of proper remittance.

Address.. all orders **The Dingee & Conard Co., West Grove, Pa.**

P. S.—We have all the leading and popular shrubs in quantity and assorted sizes; field grown. Prices will suit you. Ask for list.

SPECIAL OFFER FOR 30 DAYS

To Introduce Our Superb Progressive XX and XXX Mammoth Verbena Seed.

There'll be some that will span the silver half and make progressive Florists laugh. Once plant, and you'll a customer be. That's what we are after, don't you see. Large trade packet **XX 20 cents; XXX 30 cents** for 30 days only. (To secure these rates, mention special offer; use both grades). In Gibson's sweet scented Hybrids you will find all that can be desired in the **Pansy** ⅛ oz., $1; ¼ oz., $1.60; transplanted seedlings 75 per hundred. Our hand hybridized **Double Petunia** seed will produce the kind you will want to sell. Fine doubles and frilled singles. 500 seeds 75c, 1,000 seeds $1.25. The double white scabiosa snowball is the best thing out for summer and fall cutting ⅛ oz. 25c., ¼ oz. 40c., ½ oz. 60c. Seeds all by mail postpaid. Descriptive wholesale price-list of **Novelties** and **Specialties** free to all. Address, cash with order please.

J. C. GIBSON, Woodbury, N. J.

HEADQUARTERS for WATER LILIES

SEED of Red, White and Blue varieties, 50 cts. per trade pkt.

Nelumbium speciosum (Egyptian Lotus), N. s. roseum, N. luteum. Prices on application.

My Columbian Novelties will be ready for distribution this spring. These include such vars. that received special award at the World's Fair, and other rare vars.

Wm. TRICKER, DONGAN HILL New York.

25,000
Lady Hume Campbell Violets,

$3.00 per 100; or $25.00 per 1000.

WM. MATHEWS,
West View Greenhouses, UTICA, N. Y.

SEEDS Rarest newest, cheapest Carnations, Picotees from 100 best named kinds 50c; 400 sorts $1; 1000 sorts $3, all pot grown. Greatest variety in Europe. Be astonished; get list, will pay you. No such value.

A. BROUNT, Rotherfield, England.

CHOICE VINES,

For Immediate Shipment.

5,000 **AMPELOPSIS VEITCHII**, 1 year, pot grown, fine. $7.00 per 100
1,000 **AKEBIA QUINATA**, (a fine climber, bears a rich maroon flower) . . . $6.00 per 100
3,000 **CLEMATIS PANICULATA**, (creamy white flowers in clusters, very fragrant profuse bloomer), 1 year pot grown, fine, $10 per 100
5,000 **HONEYSUCKLES**, Golden, Hall's Japan and Fragrans, strong plants. $6.00 per 100
2,000 **ENGLISH IVY**, 1 year, very fine, $8.00 per 100

THE WM. H. MOON CO.,

MORRISVILLE, PA.

CLEMATIS.

A fine lot of 2-year old plants: Jackmanni, Duchess of Edinburg, Henryii, C. Lovelace, Fairy Queen, Lady Neville, Gem, P. Alexandra and others, $3.00 per dozen; $22.00 per 100.

SMILAX SEEDLINGS,

from fall, 75 cents per 100; $6.00 per 1000.

F. A. BALLER, Bloomington, Ill.

WE PAY THE EXPRESS.

100,000 Pansies,

grown from seed that has no superior, strong, stocky plants, in the sixth leaf, once transplanted, 60 cts. per 100; $1.50 per 1000. Mammoth Verbenas, rooted cuttings, 70 cts. per 100; $5.50 per 1000.

All the above to color; delivered free at your door.

S. WHITTON & SONS,
9 & 11 ROBERTS ST., UTICA, N. Y.

When writing to any of the advertisers on this page please mention the American Florist.

Two Proposed New Associations.

We have received a communication from Mr. R. C. Poppey, Foster Brook, Pa., suggesting the organization of the employes of florists into an association, which shall supply to members information regarding the desirability of employment with those seeking employes. His idea is for the employe who becomes a member to communicate to the designated officer of the association what information he possesses regarding the habits of the various employers he has worked for as regards payment of wages, general treatment, etc.—this information to be available to all other members of the association.

He holds that at present men frequently make journeys of considerable distance to obtain employment in response to advertisements and find when they arrive that the advertiser has a reputation for being very slow in paying his men or getting rid of them when their demands for payment become too importunate by being so rude and disagreeable that no self-respecting man can remain in their employ.

We are heartily in favor of any organization looking to the righting of wrongs of any kind, and it certainly is a fact that there are employers whom any man will do well to avoid. We trust that the organization will be formed and that it will meet the needs of the case. While it may be accepted as a fact that certain disgruntled employes will make unfavorable reports regarding some good men, the average will undoubtedly be all right and give the desired correct information in the case. But let no incompetent employe imagine that such an association would do him a particle of good.

As a logical consequence there would be at once formed an association of employers, who shall report to the headquarters of that organization their experience with employes. This organization would also be an extremely desirable one. It would be a grand thing to have on record the host of incompetent and dissolute men who now disgrace the ranks of the journeymen florists.

Let both of these organizations be formed at once that the white and the black sheep may be separated where we may see them and know them for what they are. Thus the white sheep will have an opportunity that they do not now possess, and which is frequently taken advantage of by the black ones on account of lack of information regarding them.

L. T. SEAVER,
THE PANSY KING OF AMERICA

presents to the public a revived novelty, which flower is a deep yellow round ball of great dimension, a great endurer as a vase flower, and a hardy perennial blooming until winter if cut back or potted in June. Its early popular favor dates back to Queen Elizabeth at Oxford, commanding there her great culture, it became known as the Oxford Globe; p ice 25 cents each. Also a dealer in Pansy seed, and a manufacturer of Pansy Baskets, size 10x5, 4 deep, price $11.00 per 1000.

L. T. SEAVER, . .
NORTH SOMERVILLE, MASS.
Mention American Florist.

FOR SALE OR EXCHANGE.
Fine Flowering Cacti $1.00 Per Doz. or $5.00 Per Barrel.
MRS. MAUD M. BRIGGS,
El Paso Greenhouses, EL PASO, TEXAS.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

BUSINESS. BUSINESS.
—AT—
HARD-TIME PRICES.
Send for Special Spring Import List of
DWARF-BUDDED AND TREE ROSES, CLEMATIS, ETC.
GROWN BY THE
Boskoop Holland Nursery Association.
THE PRIZE WINNERS AT WORLD'S FAIR, CHICAGO. SPECIAL PRICES.
Address C. H. JOOSTEN, Agent, 3 Coenties Slip, NEW YORK.

READ WHAT FOSTITE IS DOING FOR THE FLORIST against Mildew on Roses, and Carnation Rust.
"We are highly pleased with your Fostite and Bellows. *No investment ever paid me better. Not a speck or spot of Mildew on the place.*"
Signed, ALBERT KNOPF, President Franklin Park Floral Co., Columbus, O.

IN THE FRONT RANK!
NEW WHITE CHRYSANTHEMUM
"MUTUAL FRIEND"
It is sure to be a prize winner and a leading variety for '94.
FIRST PRIZE and CERTIFICATE of MERIT MASS. HORT. SOCIETY, '93.
Orders booked now for March delivery, 50c. each; $4.00 per dozen. At these prices all should try it. We know it will please. Send for descriptive circular.
MANN BROS., Randolph, Mass.

New Chrysanthemum, MRS. J. GEO. ILS,
A CALIFORNIA SEEDLING.
Flowers sent from San Francisco to the Chicago Show awarded a MEDAL.
A grand white, of remarkable substance, size and depth of flower. See Illustration in AMERICAN FLORIST of November 16th. The very vigorous habit, and our large stock of this novelty, enables us to assure the trade of good plants, and to guarantee safe arrival. To be sent out the 1st of March, 1891, at the following prices to the trade:
75 cents each; $7.50 per 12 plants; $14 per 25 plants; $25 per 50 plants; $40 per 100.
ORDERS BOOKED NOW BY
JOHN H. SIEVERS, 25 Post St., SAN FRANCISCO, CAL.

Hard Time Prices.
STOCK PLANTS.
GEO. W. CHILDS, WABAN, MRS. L. C. MADEIRA, VIVIAND-MOREL, V. H. HALLOCK, JESSICA, J. C. VAUGHAN, AMI HOSTE, DIANA, at $1.00 per dozen.
Cash with Order.
SOUTH SIDE FLORAL CO., Springfield, Ill.

ROOTED CUTTINGS.
Chrysanthemums AND Carnations.
Write for list and prices. Prices to suit the times.
Address J. G. BURROW, Fishkill, N. Y.

ROOTED CUTTINGS
GOOD ONES.

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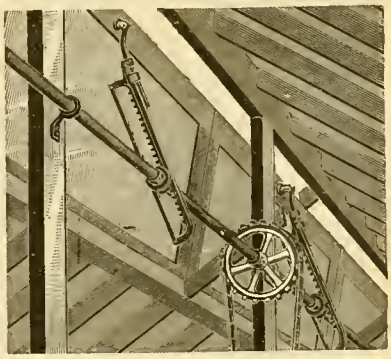
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Foreign Notes.

The leading horticulturists of Glasgow have taken steps to organize a chrysanthemum society in that city.

M. Maurice de Vilmorin will deliver a lecture before the Royal Horticultural Society on March 27 on "Rare plants and shrubs in the Arnold Arboretum, Boston."

The excessively warm weather in Great Britain was followed by a cold spell of unusual intensity during the first week in January. Zero weather was experienced in many sections where such temperature is a decided novelty.

The discussion over the action of the National Rose Society whereby La France, Augustine Guinoiseau, Capt. Christy and other roses were disqualified from exhibition in H. P. classes and placed in a separate class by themselves continues unabated in the *Journal of Horticulture* and makes very interesting reading.

With the new year *L'Illustration Horticole* returns to its old octavo form, which it abandoned some seven years ago to become a quarto. The initial number for 1894 contains a colored plate of Gynura aurantiaca which shows to perfection the velvety purple sheen on the foliage of this beautiful plant.

Pteris serrulata, var. gigantea, for which Mr. H. B. May received an award of merit from the Royal Horticultural Society in January last year, is credited in the *Gardeners' Chronicle* with being the perfection of a decorative fern. "It is free in habit, elegant in the arrangement of its fronds, quickly makes a salable plant and if grown on forms a noble specimen."

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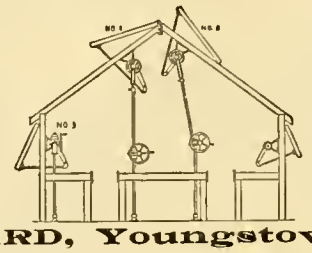
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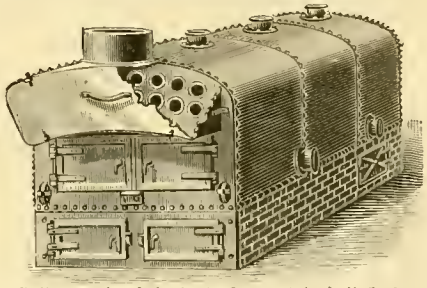
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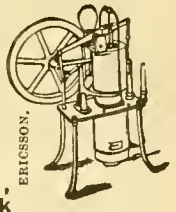
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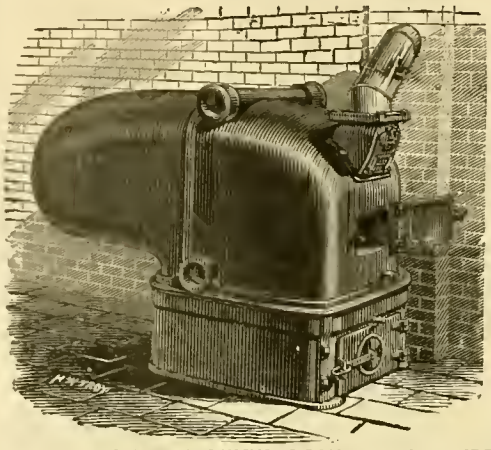
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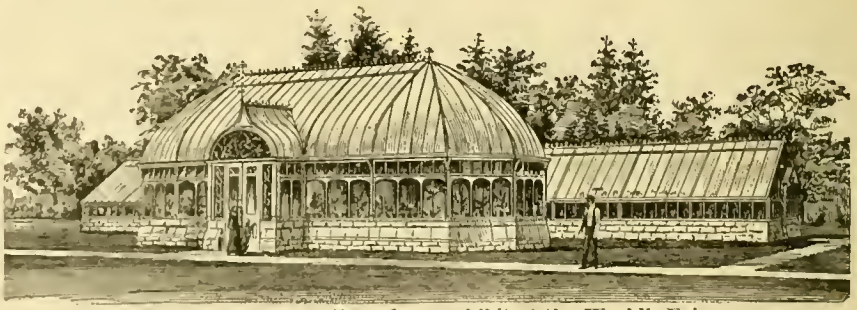
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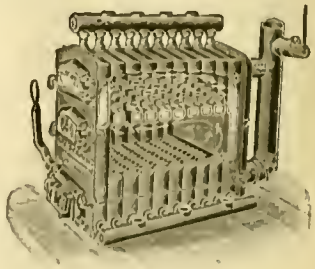
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THE AMERICAN FLORIST



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SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. Tenth annual meeting at Atlantic City, N. J., August, 1894.

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THE annual meeting of the American Carnation Society at Indianapolis, Tuesday and Wednesday of this week, was a grand success from every point of view as will be seen from the full report in this issue. Let the Chrysanthemum Society and the Rose Society take the hint and arrange for meetings at some other time and place than that of the S. A. F. convention. Come gentlemen of the rose and chrysanthemum, get up and shake yourselves. Simply make a start and the rest will follow. Don't let the youngest flower take *all* the attention of the trade. Begin at once. There is no time like the present. We will with pleasure report *your* meetings as fully as we have those of the Carnation Society.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.



Annual Meeting of the American Carnation Society at Indianapolis.

About fifty were in attendance when the American Carnation Society convened in annual session at Indianapolis last Tuesday, at 2:30 p. m. The delegates were heartily welcomed to Indiana's capital by Mr. J. S. Stuart, of Anderson, Ind., on behalf of the Society of Indiana Florists, to which response was made by Mr. C. H. Allen on behalf of the Carnation Society.

Mr. Stuart spoke as follows:

MR. PRESIDENT, LADIES AND GENTLEMEN, MEMBERS AND FRIENDS OF THE AMERICAN CARNATION SOCIETY: On behalf of the Indiana florists I welcome you here on this occasion. The calling of a florist is high and ennobling and to be a success one is brought into close proximity with the throbbing, beating pulse of nature. Through the providence of God our lives have been prolonged, our mental and physical bodies preserved, with hearts beating in unison of purpose and filled with one common desire, that of elevating this noble calling, do we thus come together on the occasion of this, our third annual meeting. I behold the faces of those who have devoted a life long service to the advancement of floriculture, men who have toiled early and late, advancing step by step in plant culture, ever learning lessons from nature which has peculiarly fitted them to be teachers and advocates of a higher standard in the florists' business.

Gentlemen and fellow florists, we welcome you here. The American Carnation Society was organized in the east. Its first meeting was held in Buffalo in 1892. Being ushered into existence in a state that numbers its florists by the thousands, composed of men with money, knowledge and enterprise, surrounded by so many congenial influences, its success was assured from the very start. The second meeting was held at Pittsburg in February last. In number, scope and character of the business transacted there it was generally conceded that all points in carnation culture had been touched upon. Twelve months have come and gone since that meeting and today we find ourselves in a wide field of mysteries in connection with the cultivation of the divine flower. The rapid strides in carnation culture have been checked to some extent; such questions as new varieties, disease, pot and bench culture, stock plants, propagation, etc., have come up with renewed interest and demand serious consideration. We welcome you to Indiana, a state crowded with grand achievements and rich with untold possibilities. We welcome you to our fair capital and railroad center. We welcome you as guests of the Indiana florists, we feel highly complimented and shall do all within our power to prove to you that the Hoosier loves his friends. Make yourselves feel at home and let us become acquainted. Work harmoniously together, and by united effort meet these perplexing difficulties. Thus by interchange of thoughts and recital of experience we shall elevate our calling and raise the carnation standard still higher. We live too low and breathe atmosphere too dense. Let us press onward and look upward, ever conforming our lives and labor more with the teachings of nature, and surely we shall become better acquainted with nature's God, and learn to recognize Him as the master switchman that makes no mistakes in the minutest order throughout the entire kingdom of nature. Again I say we gladly welcome you among us.

The first business taken up was the appointment of a committee on awards. Mr. A. M. Herr was selected by the Chester County Carnation Society, Mr. Eugene Dailledouze by the national society, and these two gentlemen selected Mr. C. H. Allen as the third member. President Hill then delivered his address as follows:

President Hill's Address.

GENTLEMEN, MEMBERS OF THE CARNATION SOCIETY: Your president deems it only necessary to make a few brief remarks on the anniversary of our annual meeting—this opening session. The year just closed has been an eventful one in the history of our favorite flower; its devotees have given increased thought and closer attention to the needs, necessities and proper culture of the carnation; under the stimulus of increased love and demand of high grade carnations new varieties are being raised and disseminated; great care should be exercised in the bestowal by this society of medals and certificates; exalt the standard; better that disappointment should occur than that this society should endorse any variety that does not measure up to the very best—or a little better—than any at present in commerce. On the other hand it is important that proper encouragement be given to those working on these lines of raising new varieties. The propriety and advisability of holding a carnation exhibit of itself originated with our Chester County friends. This is a move in the right direction; the thought and purpose are commendable. Let us be aggressive and push out into new fields, make new conquests and thus signalize our faith in the future of the "divine flower."

It occurs to your president that the

holding of an exhibition would be a most useful topic for discussion, for it is a matter involving, in a measure at least, the onward movement in carnation culture which the society has so auspiciously inaugurated and set in motion. It is a question with your presiding officer whether a successful exhibition of carnations could be held without the employment of vast numbers of carnations grown and flowered in pots. The culture of carnations in pots is of very limited practice, hence the need of preparation for so important an event. Another vital question is, how can we preserve in fresh condition the cut blooms exhibited? it is an undeniable fact that the majority of carnations exhibited at the various autumn chrysanthemum shows have withered and have been unpresentable the day following their entries—"gone to sleep," as Mr. Lonsdale puts it—hence the hesitancy and slowness of the managers of chrysanthemum shows to offer large sums or premiums for carnation exhibits. These are facts incident to exhibiting carnation flowers at the shows. Let us meet these and other questions that confront us in an intelligent and thoughtful manner.

The thorough and comprehensive discussion of the diseases incident to carnations at the meeting last year is one of the events in the society's history that it may well be proud of. The defining of the different diseases, so that those unacquainted with their insidious work could locate and know the nature of their development, was an educational work of great value to all interested in successful carnation culture, and from the innumerable expressions from men in the trade we are led to believe that the information given was thoroughly appreciated and valued.

Your president is thoroughly convinced of one thing, as a result of the discussion at Pittsburg, and that is, there must be a complete stop to the propagation from plants that are forced for flowers if we would maintain the health and vitality of the carnation. If we continue to propagate from the plants forced for flowers it inevitably follows that an impaired constitution is imparted to the propagated plants from such stock. Let no sophistry or money consideration blind us to this truth, however unpalatable and unwelcome the fact may be. When we select and propagate our stock from plants grown in a moderate temperature and under normal conditions, then and not until then will bacterin and other diseases cease their ravages. We may as well begin to adjust our methods to this imperative command, for reason and right culture point to separate plants under normal conditions to be used for propagating purposes alone; the cost of propagating will be enhanced, but if we can restore the health and vigor the increased cost of stock will be gladly met. It is essential from another point of view that we seek to restore to the carnation all its vigor and health, i. e., that the progeny seedlings may be able to maintain and produce the larger sized and better shaped flowers which recent introductions have given us.

Man, with great brain power and culture, what is he unless he has behind the brain a strong, healthy physique. If bacterial diseases are to sap the life of our Edna Craig, Mme. Albertinia, Wm. Scott, Grace Battles and other improved varieties, what profit if we have increased size and fine colors. Let us as a society seek to know all the truth as to culture, and if cultural methods are at fault let us be fearless in pointing out that which is right and in consonance with the life, health, vigor and perpetuity of our loved carnation.

The history of this society is an enviable one; its accomplishments are ascertained facts regarding culture, the diagnosis of diseases, the stimulating of efforts to raise new varieties, to say nothing whatever about the exchange of experience and good fellowship which accompanied our annual gathering. While glorying over the things achieved, let us eagerly and with firm tread press on for future conquests; old shoes are easy to wear; long trodden paths are easily traversed; let us as a society endeavor to solve the problems confronting us, to raise the standard of carnation culture from the region of the speculative to that of an exact science.

Someone has said "That no one could define the limits or obstruct the march of a progressive, energetic and enlightened nation"; the same holds good regarding a profession and if we continue in our quest for knowledge and information, who, I ask, can limit the good or stop the march of the American Carnation Society?

Discussion upon the address was deferred, and Prof. J. C. Arthur being present he was called upon to read his essay which appears in full below.

The Discrimination of Diseases without the Use of a Microscope.

BY PROF. J. C. ARTHUR, BOTANICAL DEPARTMENT, PURDUE UNIVERSITY.

"Never before in the history of man have agricultural plants apparently suffered so greatly from parasitic vegetable growths and injurious insects," says a writer in a recent number of *Popular Science Monthly*. The force of this assertion doubtless lies in the word "apparently," and keeping that in mind we could extend the remark with hearty approval from agricultural to all other classes of cultivated plants.

The carnation has been considered among the class of flowers least subject to disease, and for many years no one heard of a real carnation disease. Sometimes plants did not grow well, and then it was said they needed a different soil, or not so much water, more ventilation, less heat, or there were worms in the earth, but clearly defined diseases were practically unknown. Five years ago Professor Seymour published an illustrated account of a spot disease of the carnation (*Septoria Dianthi*), which turned the attention of both florists and botanists to a closer inspection of the carnation bench. But this was only a summer cloud, that raised no particular apprehension. The real storm burst upon the carnation world when the advent of rust was made known three years later. Every defect in the green part of the plant was now suspected to be rust, and not a little disturbance to trade and mutual confidence developed from the inability to definitely recognize this dreaded disease.

In 1889 Mr. William Falconer wrote, apropos of Mr. Seymour's article: "This whole question of plant diseases is one of vast importance to us, but practical men like myself are absolutely unfit to grapple with this subject: it is a matter for the scientist. We can understand fairly well anything we can see plainly, but the obscure diseases bother us. It isn't enough for us to say, 'Oh, it's some sort of a fungus.' Be precise, know for a certainty whether it is a fungus or not, and if a fungus, what fungus it is; also whether the fungus is the cause or the effect." No wiser suggestion could have been made, and the carnationists seem to have taken it to heart, and acted with commendable discretion. First, it was necessary to summon the scientists, in order to learn the names of the fungi, their habits and the extent to which they were responsible for the troubles. They came. They came armed with the microscope, and presented long papers profusely illustrated with the details of strange forms, and described the behavior of mycelium and spores in bewildering intricacy. Probably no florists' society has ever been favored with more complete and admirable papers upon the diseases of its special kind of plants than the American Carnation Society listened to at its last annual meeting from Professors Atkinson and Halsted. The scientists have certainly responded cordially to assist in carrying out the first part of Mr. Falconer's suggestion.

Having ascertained what fungi cause diseases, it is now best to turn to the second part of Mr. Falconer's suggestion, and learn to recognize the different forms of disease, and to associate the right fungus with each. This is work for the florist, and it is to aid his efforts that this paper is presented.

We will suppose that something is wrong with the carnation bench. The plants do not flourish, or they have taken on a discolored or distorted appearance, how is the case to be diagnosed? There seems to be no indication of insect work, and so fungi are suspected. What next? The best plan would be to call an experienced specialist—a plant doctor—a practical vegetable pathologist—and accept his diagnosis. At present this is an unusual proceeding; but the time will doubtless come when it will be as common, and thought as sensible, a practice as to call a doctor for one's horses or one's children.

But to-day every man is his own doctor, so far as his plants are concerned. He must diagnose the case and prescribe the remedy. If he possesses a microscope of fairly good quality and some skill in its use, the way is clear: Look at the plants, then at the learned accounts of pathogenic fungi; put a little of the material suspected to be a fungus under the microscope, and compare it with illustrations of spores and mycelium outgrowths. It will not be difficult, as a rule, to decide which, if any, of the fungi described are present in the case in hand. Usually, however, no microscope is available, can anything be done without it? Yes, very much, often all that is required. For this purpose a small magnifier, costing from 50 cents to $1.50, is of much aid. There are less than a half dozen well marked diseases caused by fungi, and the first thing to do is to decide in reference to these.

Rust is the most dreaded, and fortunately the most clearly defined, of all carnation maladies. It appears in spots on the leaves and stems from the size of a pinhead to a quarter of an inch across. The larger spots are irregular in shape, being made up of the small ones standing close together. For a while there is a thin covering, and the spot looks like a blister. When the blister breaks, as it soon does of itself, or can be easily broken by the finger, it is seen to be filled with "a fine snuff-like dust" that readily rubs off and scatters the infection. The most characteristic thing about rust is this brown powder. Any spots or discolorations of any sort, which do not yield the powder are not rust.

Spot is the next most important disease at present attacking carnations. It can be recognized with much certainty. Definite roundish spots are formed upon the leaf, often as broad as the full width of the leaf. A spot shows almost equally well upon both surfaces of a leaf, the tissues of the leaf being practically dead. The spots are pale yellowish or a whitish color, with the living tissues around the leaf more or less deeply tinged purple or red, thus forming a kind of halo of color shading off into the healthy green of the leaf. The pale center of the spots, an eighth of an inch or more across, is eventually (that is, if the spots are not too young) thickly studded with small black points. The dots may occur on both surfaces of the spots, but usually are more conspicuous on one surface than on the reverse. Holding the leaf to the light and looking through it, often aids materially in detecting the dots. Nothing is so characteristic of this spot disease as these black dots scattered over a definite pale area. The dots are really inside the leaf, so that throwing the light through the leaf will often reveal them better than in any other manner. There are usually several hundred dots in each area. Spot occurs on the stems, as well as on the leaves, where it shows the same characteristics, although not always so well defined.

The next most prevalent and distinct disease is what has been called *anthracnose* (an inappropriate name, it seems to me, which needs to be replaced by a better one). This is most conspicuous and destructive upon cuttings, although it also sometimes seriously affects plants in flower, when it is usually most conspicuous on the bases of the older leaves, and at the joints of the stem, particularly if shaded and kept moist. The fungus (*Volutella* sp.) shows as small dots, very black, of unequal sizes, scattered profusely over the pale, bleached surface of the plant, without any definite limits. The dots stand out well beyond the surface of the plant, and if examined with a hand magnifier, many of them can be seen to be made up of tufts of minute black bristles. The well raised black dots, formed of minute black bristles, are the characteristic features of this disease. Without seeing the minute bristles under a hand lens, it is sometimes difficult to separate this fungus from a brown or blackish fungus (*Cladosporium*) that sometimes attacks weak or poorly grown plants.

The Cladosporium spreads over the dying or dead parts of the plant, or even attacks the young growing parts. The surface turns brown or blackish, and slightly velvety, in irregular patches of indefinite extent. It never forms well defined dots or well limited areas. There is another more conspicuous mold (*Botrytis*), which sometimes makes its appearance upon dead parts of the plant in a moist greenhouse, which I need not mention further, as it also occurs upon any dead plants under the same conditions.

Fairy-ring is a well marked disease, not yet widely distributed, which can doubtless be fully controlled, if intelligently handled. The fungus (*Heterosporium echinulatum* B. C.) gives rise to roundish, fairly well marked spots upon the leaves, which at first remind one of those formed by spot (*Septoria*). But the fairy-ring fungus does not cover the areas over with black dots but with concentric rings, which are minutely velvety and black, or nearly so. These fungus-infested areas show upon both sides of the leaf.

The bacterial disease of carnations, which for convenience we may call bacteriosis, shows readily upon leaves recently attacked. It at first forms translucent dots in otherwise healthy leaves, best recognized when of the size of a pin point by holding the leaf so that the light will shine through it. These dots enlarge and run together, and the leaf finally turns yellow and dries up. The presence of the disease can be recognized by looking at the leaf with light shining through it long before any indication appears upon the surface of the leaf.

Rosette and *purple joint* are two obscure diseases not yet sufficiently studied to make it possible to include them in this summary. This ends the list of fungous diseases of the carnation now known.

Of these several diseases, rust, spot, fairy-ring, and bacteriosis form in their earlier stages definite spots of a characteristic appearance, which can be recognized with much certainty without the use of a microscope. Each of these four after a time causes the leaves to turn yellow and gradually die. It is not until the later stages are reached, as a rule, that the disease attracts attention. In diagnosing a disease the novice often makes the mistake of trying to determine the cause by examining the plants that are already dead, instead of looking at such as are yet in the earlier or intermediate stages. In the earlier stages one may expect to find only the fungus causing the disorder, or at least to find it predominating, while afterward various molds and rots dispute possession of the dying or dead plant, and obscure or quite obliterate the original fungus.

The first step in such an examination is to determine whether any one of the fungi named, or any similar fungus, is present or not. If there is any doubt about the identity of the fungus, send a liberal sample, either dried, or packed in such a way that it cannot mold, to some botanist for determination. The list is a short one, and the writer believes that every florist could soon learn to recognize the several sorts with much certainty even without the aid of any magnifier, although an inexpensive hand magnifier, will be of much service.

But no method of identifying these diseases is equal to a personal knowledge of their appearance under varying conditions. To have a good description at hand is a help, but I cannot feel the same confidence in this aid that Mr. Alex. McBride expresses in the AMERICAN FLORIST (1893, p. 930). He says, there should be "a lucid description of the exact manifestations of each of these diseases, divested of all technicalities, and omitting all results of microscopical observations, but describing in detail the peculiarities of each as they appear to the unaided eye. It should be so clear that every grower of carnations would be enabled to detect at a glance the presence of any one of these fell destroyers." Now even a trained botanist does not depend upon descriptions for identifying either fungous or flowering plants, when it is possible for him to get authentic specimens to compare with. Any one of you would find it difficult to describe a man so that provided only with the description the rest of us could identify the person whenever we came across him. How much more difficult is it to identify these minute fungous growths, with which we have so little acquaintance. Descriptions are desirable, and the man that can make the best should receive due credit; but are there not other valuable aids that can be made use of?

In this connection I desire to make a suggestion. This society brings together at its annual meetings a display of blooms for examination and comparison. Let it also institute a display of diseased specimens. Each member could bring such material as may be convenient, both to show to others who may not know the diseases, and also in many instances to satisfy himself that his own diagnosis has been correct. It would be well, in order to make sure that all the diseases are well represented, for the secretary or some duly appointed person to ascertain in advance who is willing to contribute at each forthcoming meeting fresh authentic material of each disease for comparison. I am aware that no grower wishes to admit that his plants ever show any form of disease whatever, and so I suggest that all diseased specimens be obtained from kindly disposed neighbors, who do not make a specialty of carnations, and do not feel their reputations to be in danger. As this society usually has a botanist at its meetings, he could be invited to come armed with a microscope and be in readiness to determine doubtful cases.

This suggestion is an adaptation of the method long in practice in England for becoming acquainted with edible and other mushrooms. Each season a meeting is held at which the members spend part of the time in scouring the woodlands and meadows for mushrooms and the rest of the time in comparing the material collected and in personal examination of specimens named by competent botanists who are present. Thus each member secures an accurate working knowledge of mushrooms. If a method of display could be adopted by this society and heartily carried out, I predict that the advance in general practical knowledge of fungous diseases, and of their treatment which could not help but follow, would be as astonishing as it would be gratifying.

In the discussion which followed Sec'y Pennock asked Prof. Arthur if he could not suggest a substitute for the word anthracnose, objection to which was noted in the essay. Prof. Arthur replied that while the name anthracnose as applied to diseases of other plants conveyed a description quite foreign to that of the carnation rust still he had been unable to think of a satisfactory substitute.

Mr. Ward exhibited a small pocket microscope, costing $1.50 to $2.50, and said it would be found a valuable aid by carnation growers in discovering evidence of disease on plants. He felt that great injury had been done through the unwillingness of growers to admit that they had the rust on their places. This, in his opinion, had caused great injury to the carnation industry, as the rust had thereby been widely disseminated when its distribution could have been avoided had growers recognized the evil at once, and instead of hiding it taken steps to at once eradicate it root and branch. Last year he had no rust but was unable to claim that for his stock now. It came to him on stock which he had taken to grow for another party. He felt that a number of growers had denied having rust when they did have it, simply because they did not recognize the pest when it appeared, and that education of all growers to be able to readily recognize it was extremely desirable.

Mr. Lonsdale had been wrestling with the rust problem for several years and found that plants kept under glass all summer and continually treated with the various fungicides were now practically free from the rust. He had always failed in his efforts to grow Buttercup well until

last year. Not that it rusted, but he did not seem to be able to keep it healthy otherwise. He kept the plants under glass all summer and had met with his first success in growing this variety.

Mr. Ward again spoke, and said he believed the rust was very apt to follow any check given the plant, the most severe check as a general thing being when the plant was lifted from the field and the avoidance of this check may have contributed to Mr. Lousdale's success. He said the disease usually is first visible in the shape of a small pimple at the base of the leaf, and that owing to its being in a measure hidden from observation in this position the disease was very apt to have made considerable progress through a house of plants before the grower noticed anything wrong.

Mr. Michel asked Prof. Arthur whether the best plan would not be to apply liquid fungicides in moderate strengths as a preventive rather than wait till the disease had developed and then attempt to cure.

Prof. Arthur replied that you cannot kill the disease after the plants are once infected. The fungus grows inside of the plant and the only external evidence of its presence is the spores breaking through the skin of the leaf after the fungus has reached the fruiting stage. But through the application of fungicides the *spores* may be killed and the *spread* of the disease thus stopped. He had seen plants that were literally blue from applications of the Bordeaux mixture but in which the rust still grew. Still it could not spread any further as the spores were killed when they came to the surface and thus further dissemination of the pest was prevented. He would recommend that the Bordeaux mixture, in about half strength, be syringed over the plants once in every one or two weeks. Once a month would be too infrequent to be thoroughly efficacious. The "Fairy ring" disease has been very destructive to carnations in England, often cleaning a house out entirely in spite of all efforts to check it. It may not be so destructive here in this climate, but as it has been imported into this country it would be well to keep a sharp look out for it and to prevent its spread if possible, for it might prove to be as destructive as rust.

Mr. Ward believed that prevention was the plan to adopt. He keeps the atmosphere of his houses continually charged with fungicides. He found fostite very useful for this purpose. It is a very fine powder and the atmosphere can be so filled with it that every part of the plant is sure to be reached as well as under the benches, in crevices, etc. where spores may have lodged. One objection to fungicides as a preventive was that they injure the flowers, rendering them dirty and frequently unsalable.

Prof. Arthur called upon Mr. Dorner to describe his method of prevention which he said had resulted in making Mr. Dorner's houses an exceedingly unprofitable field in which to hunt for specimens of diseases. Mr. Dorner replied that he dissolved one pound of sulphate of copper in two quarts of ammonia, in a 2-gallon jar. When dissolved he adds another quart of ammonia and stirs it up well. He finds this makes the solution clear and avoids the curdy condition that results unless the later addition of ammonia is made. The liquid can be kept in this form for some time. A pint of this solution is added to a barrel of water and with this the plants are syringed with a force pump every two weeks.

Prof. Arthur added that while many things regarding fungicides remained to be determined by further investigation it has been thoroughly proved that the copper compounds were poison to the fungi. It kills the spores at the moment they begin to germinate. He believed that the spot and bacterial diseases were not a serious menace unless allowed to spread freely, but that the rust and the fairy ring disease would be apt to exterminate the carnation if not kept under sharp control.

On motion of Sec'y Pennock a committee of three, consisting of Messrs. Ward, Lonsdale and Shelmire, was appointed to formulate a plan to bring together at the next annual meeting a collections of specimens of the various carnation diseases in accordance with the suggestion in Prof. Arthur's essay.

Discussion of the President's address was then taken up, the main discussion being upon the advisability of attempting an exhibition as outlined in the address.

Mr. Dorner was heartily in favor of such an exhibition and thought the display should be a competitive one. Mr. Shelmire was decidedly in favor of the exhibition and felt that it would greatly benefit the trade, particularly in the city in which it was held. Mr. Dorner advocated securing an airy hall with abundant ventilation. He believed that a small hall crowded with people put flowers to sleep very quickly. Mr. Hill being called on enlarged upon the great benefit to the trade of all exhibitions and of the proposed one to carnation growers. He offered all the assistance in his power, financial and otherwise, to make it a success. Mr. Gillett cited the education of the people from exhibitions and noted the fact that retail buyers now called for carnations by name. Mr. J. G. Hancock was warmly in favor of the exhibition. Mr. Hill suggested that an arrangement might be made with the local club where convention was held to give such an exhibition jointly with the Carnation Society. Mr. Grant stated that the several Chicago florists present had each mentioned the exhibition as the attraction that took them to the convention, and that others who had been unable to come had said they disliked to miss the opportunity to see the display of new varieties. He judged from this that the exhibition feature was one that it would be well for the society to elaborate. He believed that an excellent feature of the exhibitions would be a display of arrangements of carnations, showing the many profitable uses to which carnations could be put in the work of the retail florist.

Mr. Hill thought that pot plants of carnations should be made a feature, and mentioned the grand display he had seen at an English show.

Mr. C. H. Allen said he had seen pot plants of Wm. Scott, grown by Mr. Ward, with 10 to 12 blooms, that would make a great attraction at an exhibition. In the English garden varieties the one called Winter Cheer would be exceedingly useful for an exhibition held in winter. He had found it a splendid pot plant. The color is much like that of Garfield. The plant grows right through the winter, and blooms through the summer too.

On motion of Mr. Michel a committee of three, consisting of Messrs. Allen, Dorner and Witterstaetter, was appointed to prepare a plan of giving an exhibition as suggested by the President and to report the following day.

The committee on awards being called upon for a report announced that they had awarded the Chester County Carnation Society's gold medal for best seedling to Mr. Fred Dorner's "The Stuart," and asked further time to report other awards.

The Exhibition.

This was a grand feature, Mr. Fred Dorner's display being alone an exhibition it itself. He had a 40-foot table completely filled with vases of magnificant blooms. Prominent among these were beautiful vases of Wm. Scott, Uncle John, Mrs. E. Reynolds, E. A. Wood, Goldfinch, Mme. Diaz Albertini, The Stuart, Richmond and Daybreak. In addition there was a host of seedlings. Among the most striking of these were No. 42, a very large white striped carmine; No. 77, a salmon yellow striped and flaked with carmine; No. 78 much like above with a slight difference in markings; No. 69, much resembling Wm. Scott; No. 71, an excellent white; No. 12, much like Albertini; No. 79, pink suffused with light salmon at base of petals; No. 23, fringed deep pink; No. 16, a shade darker than Albertini; No. 44, light yellow with faint crimson pencillings; No. 54, color similar to Albertini but different in form; No. 29, white; unnumbered, heavy carmine pencillings on light ground, a very taking flower of unusual size; No. 14, a shade lighter than Reynolds; No. 50, a shade deeper than Albertini; No. 46, a shade lighter than Reynolds, good form and size; No. 41, an excellent crimson; No. 32, much like Albertini, petals curled more; No. 53, a shade lighter than Reynolds; No. 84, a violet shade, a new break; No. 98, a huge white; No. 75, a fine large pink; and 15 or 20 others, none of them without merit. It was truly an educational display.

Other exhibitors are listed in the following report of committee on awards.

THE GOLD MEDAL.

We award the Gold Medal of the Chester County Carnation Society to The Stuart, exhibited by Fred Dorner & Son, Lafayette, Indiana.

CERTIFICATES.

We award certificates of merit as follows:—To Uncle John, exhibited by Fred Dorner & Son. To Helen Keller, exhibited by Edwin Lonsdale, of Chestnut Hill, Philadelphia. To Jubilee, exhibited by E. G. Hill & Co., Richmond, Indiana. To Fred Dorner & Son for display of new seedling carnations. To Bertermann Bros. Indianapolis, Ind., for Edna Craig. To W. W. Coles, of Kokomo, Ind., for vase of Kaiserin Augusta Victoria rose.

Fred Dorner & Son have the finest display ever exhibited by any one grower; special mention should be made of Richmond, William Scott, E. A. Wood, Goldfinch, Mme. Diaz Albertini, Uncle John, The Stuart. They also exhibited a number of new seedlings never before shown. Among these were variegated seedling No. 42, measuring 3½ inches; No. 75 measuring 4½ inches, excellent carmine pink; No. 46 deep rosy pink measuring 3 inches; No. 41 crimson, of good size; No. 98, 3½ inches, white, remarkably double and finely fringed.

R. Witterstaetter, Cincinnati, Ohio, very creditable display of about twelve varieties, including a vase of excellent Buttercup and Daybreak, worthy of mention for color and size. Seedling No. 50 a very promising scarlet.

Peter Herb, Mt. Healthy, Ohio, Adelaide Kresken; it is a very large and fine flower.

Edward Swayne, Kennett Square, Penn. vase of Ophelia and Sweetbrier.

Edwin Lonsdale, Chestnut Hill, Penn., vase of Helen Keller, the finest variegated carnation now on the market.



CARNATION BOUTON D' OR.

Weishaar Bros., Beech Grove, Ind., three novelties—Gertrude, Bessie and Hilda.

Heim Bros., Blue Island, Ill., several vases of standard varieties.

Henry Michel, Marion, Ind., displayed his new white seedling with remarkable fragrance, also several other varieties of seedlings.

Bertermann Bros., Indianapolis, Ind., general display, a remarkably fine vase of Fred Dorner and Edna Craig.

George Hancock & Son, Grand Haven, Mich., displayed a number of standard varieties.

W. R. Shelmire, Avondale, Penn., displayed a number of Cæsar's seedlings.

Adolph Pahud, Indianapolis, Ind., displayed a vase of standard sorts and a new scarlet, W. W. Coles.

J. M. Gasser, Cleveland, Ohio, a display of standard varieties.

E. G. Hill, Richmond, Ind., a vase of The Stuart, Mme. Diaz Albertini and Daybreak which were very fine.

John Hartje, Indianapolis, Ind., a promising white seedling.

ROSES, ETC.

E. G. Hill & Co., Richmond, Ind., Senator McNaughton (white). The flowers exhibited were not white and this variety cannot be classed as a white rose.

J. A. Peterson, Cincinnati, Ohio, displayed a vase of magnificent American Beauties.

Thomas Jackson, Cincinnati, Ohio, very fair display of Marie Louise violets.

A fine vase of Marechal Niel was displayed without any name attached.

W. W. Coles, Kokomo, Ind., displayed some magnificent Mme. Caroline Testout.

J. S. Stuart of Anderson, Ind., several vases of fine roses.

J. M. Gasser, Cleveland, Ohio, exhibited some excellent Bridesmaid, Hoste, Bride, Mermet, Watteville, Cusin and mignonette.

Pittsburg Clay Mfg. Co. displayed pots and cut flower vases.

B. Schroeter, Detroit, Mich., showed his wire plant support.

The Cottage Gardens, Queens, N. Y., exhibited a case of young plants.

Bertermann Bros., Indianapolis, Ind., fine specimen cinerarias and azaleas.

The general display was greatly enhanced by the Indianapolis Florists Club's exhibit of palms, &c.

At Wednesday morning's session Secretary Pennock read his report, which showed a present membership of 144. Treasurer Allen's report showed receipts during the year of $382.68, a balance on hand of $132.49, and total assets of $361.99.

Mr. Herr reported briefly for the nomenclature committee, and the committee was continued for another year. Mr. Ward reported for the committee appointed to carry out Prof. Arthur's suggestion about an exhibition of carnation diseases, and the committee was instructed to go ahead on the plan advanced. Boston was selected as the place for holding the next annual meeting.

The election of officers resulted as follows: President, Eugene Dailledouze, Flatbush, N. Y.; Vice-President, E. G. Gillett, Cincinnati; secretary, C. J. Pennock, Kennett Square, Pa.; Treasurer C. H. Allen, Floral Park, N. Y. Two proposed changes in the constitution were adopted, one inserting the word Canada so as to read "We, citizens of the United States and Canada," and one changing the time of meeting from the third Tuesday to the third Thursday of February. Considerable discussion developed over the adoption of a scale of points for judging carnation flowers, and the matter was finally referred to a committee to report at a later session. Mr. Fred Dorner's paper on "New carnations and their introduction into commerce" was then presented as follows:

New Carnations and Their Introduction Into Commerce.

BY F. DORNER.

New carnations and their introduction into commerce is a theme which occupies the minds of a great many florists of the present time. The progress and the improvements made in the divine flower have created a stir over the whole country, and much has been said and written about it. New thoughts and ideas chase the old modes and habits of their culture, as the new varieties are chasing the older ones from greenhouse and market. A great deal can be learned yet, and much can be said about such an interesting theme, but I will confine myself to a few views of this all absorbing phase in the culture of the carnation.

When one's occupation leads him daily through the same channels,—an occupation having its diversities in the change of the seasons of the year, an active and observing mind will notice a great many things which went by unobserved before. Thoughts flash through one's mind which under close dissection prove mere illusions. But sometimes there is a grain of truth worth the while to analyze and to bring into practical use. Now we are only too often led by our self love and importance to make pets of our creations, and we all know pets are very often horrible things in other people's eyes. We see all their good points, overlook their faults, and when, as with our new varieties of carnations, we cast them on the broad field of commerce, the majority make a sore struggle for life and go under never to be seen again. It is then our pets are shown to us with all their faults exposed. Faults which loving eyes, or perhaps greedy ones, were unable to see before. Now do you not agree with me that such conduct is wrong, and is often ridiculed to a large degree? Disappointment and reproof will be our reward, and a momentary gain will be charged to the debit of our reputation.

The grower of new carnations only too often falls into the error of idealizing his new varieties, especially when he grows only a small number of plants. All the best care is bestowed upon them; they never suffer anything to advance them in their growth. They are kept clean of decayed leaves, tied up nicely, so that they are always shown at their best. Well, in short, they are made pets. We should give our new varieties the same culture that all carnations require, and give them a thorough test for their adaptability as a market variety. Carnations are unlike chrysanthemums, where some varieties are grown for show purposes only. We want in a new carnation, a variety we can grow for a profit, pet flowers and pet plants should cut no figure in selecting a variety for dissemination.

I am still of the same opinion, that I expressed in my paper read before the S. A. F. at Toronto. Namely:—That carnations are more or less short lived, caused by their productiveness without sufficient intermission of rest. This is one reason why we find a ready market for good new varieties. However, our chief aim should be their improvement. In grow-

ing a large number of seedlings every year, I make it a rule not to form a decisive opinion on any seed plant. I merely make my selections of those I wish to put on trial the next year, and grow a sufficient number of plants for that purpose. These I give the same treatment, the same care, and the same exposure that I give all my other plants. If there is any good in a variety, any meritorious improvement, it has to show itself under the general culture, and should not be forced. True, we should know what special treatment to give any one variety but this cannot be learned in one or two seasons. If there is any possibility of improving their merits by a better understanding of their habits it will be much in their favor.

In this second year's growing, "the year of trial," an observant grower will notice many interesting features. Many varieties are going back already, showing unmistakable symptoms of decreasing vitality. In one plant we would not be sure whether or not a deficiency was caused by natural agents, but if we grow from 12 to 25 and 50 plants of a variety and all show the same symptoms, then there can be no mistake about it; and these are to be left alone, however promising the seedling plant may have been. This degeneration will be noticed in various ways:—In a less healthy growth, split flowers, where there was not one to be seen on the seed plant, weak stems, smaller flowers and less free blooming. The symptoms of degeneration are the same as in old standard varieties.

Other varieties will hold their own. But those showing a marked improvement in the requirements of a good carnation are the ones wherefrom to select the varieties for future use; and of these there will only be a small number from the big lot started from seed. An improvement over the seed plant I consider one of the most important points. It shows a vitality which is not fully developed, and may yet be improved in the hands of a careful cultivator. The other most essential points are:—strong healthy growth, strong stem, good form and clear distinct color of the flower, and freedom of blooming from early to late, for if a variety shall prove remunerative we must also consider quantity as well as quality.

If these qualities can be found on the trial bench, one may safely make selections for introduction into commerce. I will dwell on this point farther on and will take a view of what we consider a good flower. Some would say ideal flowers, but this has too much relation to pets, as the different person's ideals differ very materially. In regard to form we will soon have to take a broader view than we have been taking. Some growers have expressed their idea, and describe very minutely how a good flower should be formed. In one point we all agree that is, that the calyx shall not be bursting. How the petals are formed and arranged is a matter of taste as much so as the color of the flower. I think we will soon term our carnations as we do chrysanthemums. We will have our incurves and reflexes, as well as flowers with straight petals; flowers symmetrically built like a Chinese or curled and twisted like a Japanese. To make a comparison with the rose we will have our American Beauties and Belles, but this all will be governed by the taste of the consumer and with what remuneration a variety can be grown. I should like to make a few remarks for illustration. I hesitated to send out our variety Wm. Scott, on account of its irregular and often twisted flower, and only for its free blooming and vigorous growth did I put it on the list. From its first appearance it found favor everywhere and is now considered one of the best. Mrs. Reynolds found less favor on account of its tendency to incurve its large broad petals. It is said, this is too suggestive of going to sleep, although I have kept flowers in this incurved state for over a week. As to color Dame Fashion is absolute ruler. Any color if decided and brilliant is good. It will find its admirers and will be sure to have its day when finding favor in the eyes of Dame Fashion. Undecided shades, striped and mottled flowers are not so much recognized, but still have their admirers. The value of the improvements made in the last 4 or 5 years cannot be overestimated. The way our work is appreciated is shown by the ready sales of good flowers at good prices. This encouragement should stimulate us to make further efforts in their improvement.

The introduction of new varieties is a topic of much discussion. A great deal of dissatisfaction is experienced by seller and buyer. Various ways have been suggested to test the merits of a variety before it is thrown on the public, to save the purchaser from buying worthless stuff. A suggestion was once offered, "To appoint Experimental Stations, noted growers in different parts of the country to try their adaption to locality as well as to test their merits of the originator's description." But what will all these measures avail in a large country like ours? Can we restrict the usages and liberties of trade as long as there is no physical or moral harm done by the article in question? Can the American Carnation Society compell a grower to observe their rules? No, not even can the Society compel its own members; for if the membership becomes a fetter to his ideas he will simply leave it. Our society is not a society for amusement, it treats of our occupation, and any wrong supposed or real on one side with dollars on the other will soon decide which way to go.

The only available measure of any importance, to separate the chaff from the grain, of the many seedlings now grown everywhere, has already been taken by the society at our last meeting at Pittsburg, with the resolution adopted:—Not to recognize any seedling, for any award of any kind, unless it is in the third year's blooming. This measure will at least force the grower of new varieties to give them a more thorough trial if he values any of the American Carnation Society's awards. The American Carnation Society has accomplished a great deal in the short time of its existence, and should command the respect of every florist. Any award given by this body should be prized as the highest honor that can be bestowed on a new variety. If the society would arrange for a Carnation Exhibition at a suitable time in the year much more good could be accomplished. As a Society we can only compliment the good and denounce the worthless.

This leads to the conclusion that every grower must be his own judge. And in fact no grower can depend on a new variety unless he has made a trial for himself, for we must deal with a factor that cannot be over looked. "The adaptability of a variety to the locality, and would like to say, to the mode of culture he practices." How often we hear that certain varieties grown in the East will not do well in the West and vice versa. Still more; it is often reported that in a radius of 50 miles, one variety does better in one locality than another. How often you read reports in the AMERICAN FLORIST or the *Florist's Exchange*, that one grower has one variety to perfection while another variety looks poor, and with his next neighbor he finds the reverse. What would Experimental Stations amount to in the face of such facts. I repeat it again every grower must experiment for himself and grow that which will do best with him. He is not expected to try every new variety he sees advertised, but to select what may suit his wants or may prove a betterment over what he is growing, and give them a test on his place. It is unjust for one to condemn a variety he cannot grow with profit, while another can. The grower of a new variety if honest in his convictions can not be blamed when it turns out a failure at other places. Sometimes the introducer of a new variety is accused of propagating the life out of a variety in quest of filling all his orders from a small number of plants. Such an accusation may sometimes be true, but on the other hand the buyer sometimes follows this same example and keeps on propagating from the young weakened plants, and makes two and three out of one. The question of this kind of practice can be answered with the adage "as we sow we reap."

Like all new articles our new carnations have to run the gauntlet of taste and criticism of the grower and consumer. If tasteful to the consumer and remunerative to the grower it is a go. Many new varieties have been introduced into commerce in late years, a great many will follow in the future. Old varieties will be laid aside like a wornout, threadbare garment and replaced with a new one. Other new varieties will find their way into commerce on account of their superiority over existing varieties. The same law that rules commerce will answer here, the good will survive, the worthless will go under. Business tricks may help for a time, but honesty will prevail.

The essay was received with applause and a vote of thanks to the essayist was unanimously passed. In the discussion that followed Mr. Lonsdale asked Mr. Dorner about the cause of the bursting of the calyx. He had grown seedlings that seemed remarkably promising the first year, but which the second year or third year would develop such a tendency to burst that they were worthless. Mr. Dorner replied that he had had the same experience with numerous seedlings. He believed the fault was an early indication that the variety would run out. Mr. Hill indorsed what Mr. Dorner had said and cited similar cases from his own experience. Mr. Witterstaetter had noted that even when the first flowers on seedlings came perfect the second crop of flowers on some plants were apt to burst. Mr. Dorner said the greatest tendency to split was to be seen in varieties having short round calyces, and that flowers having long slender calyces were most promising. In the latter the petals elongate the claw and grow out over the top of the calyx without bursting. Referring to the length of life of varieties Mr. Lonsdale said that Buttercup, which had been in commerce twenty years, had done better with him this year than ever before. Mr. Dorner replied that of course there were exceptions to all rules. Regarding Hinze's White Mr. Dorner thought that the rest this variety takes between crops had been of great assistance in lengthening its life,

as against others which were exhausted by continued growth and bloom. Mr. Allen added that there was no money in varieties that did not bloom continuously and that croppers should be dropped. The morning session then adjourned.

At the Wednesday afternoon session the first business was the report of the committee on exhibition, who recommended that the officers of the society act in conjunction with the Mass. Hort. Society in arranging for an exhibition during the Boston meeting, the American Carnation Society to guarantee premiums to the amount of $500 on carnations, and to appoint two of three judges, the remaining one to be selected by the Mass. Society. Also that premiums be offered for pot plants and that exhibitors who were not members of the American Carnation Society be charged an entrance fee of $2. To insure the guarantee some twenty or more gentlemen subscribed $25 each and a committee was appointed to solicit further subscriptions.

The committee on adoption of a scale of points for judging flowers reported the following, which was adopted:

Form	20	points
Fragrance	10	"
Size	20	"
Color	20	"
Calyx	10	"
Stem	20	"
	100	"

The committee recommends that no medal, certificates or other prize be awarded unless the variety has been bloomed for at least three seasons. Also that judges consider the points from the commercial standpoint rather than their exhibition value.

A committee was appointed to design and have printed a form for the society's certificate of merit.

Mr. Eugene Dailledouze then read his paper on "Carnations for cut flowers," given in full below.

Carnations for Cut Flowers.

BY EUGENE DAILLEDOUZE.

MR. PRESIDENT, LADIES AND GENTLEMEN:—Before reading the few notes I have prepared on the subject "Carnations for cut flowers," I will make a few remarks on the early varieties, or the real beginning of the culture of the divine flower in this country, to any extent.

The first white was, so far as I can learn, Mount Blanc. It was imported into this country in the fifties. The flower was very large and shapely; possibly as good as has been seen up to this date; but the plant was a very tall grower and shy bloomer. Prior to this time there were only a few varieties in cultivation, among them a bright red, a variegated and two or three others. They had all the same failing, being shy bloomers and very tall growers. Unfortunately, I have not been enabled to learn the name of the varieties.

In 1858 came another importation, this time in the right direction. It was the famous La Purite from Lyons, France, and its arrival is still fresh in the memory of a few old florists. In the same lot was De Fountaine, probably the first of the yellow class.

In the spring of 1862 some seed was imported from the amateur and specialist who raised the two last named varieties. From the seed quite a lot of plants were raised and bloomed in the fall of the same year. Among these were President De Graw, which was not considered of much value, but was, however, kept for another trial, as it showed a tendency to bloom freely. Flatbush, another variety, was considered the pick of the lot; and I am told it was the finest white carnation ever seen up to the present day; but its life was of short duration, as it split badly and would not root. General Grant, another white, was thought much of, but it, also, failed to stand the test long. In 1864 President De Graw outshone all the others and was the standard white variety for many years.

In the spring of 1864 (March) plants of President De Graw and Flatbush were offered for sale; the first fifty were sold to Peter Henderson, in five inch pots, at $3 each. This was considered quite a start. In 1865 a catalogue was issued by Dailledouze, Zeller & Gard, containing 125 varieties. This firm introduced La Purite and De Fountaine in this country, and also raised and disseminated President De Graw, Flatbush and many other varieties, several of which would be appreciated to-day.

CARNATIONS FOR CUT FLOWERS.

The first point we have to consider is to start with good, strong, healthy cuttings; root them where you will—in a north, south, east or west house—so long as you accomplish the task. I prefer a north house, because, when they are once inserted in the sand and thoroughly watered they require little attention, except a light sprinkling and air when the weather will permit. Air should be given on all possible occasions, as it keeps the house sweet and dries up the condensed moisture, which is bound to form in a north house.

I find it makes no difference whether or not I use a knife in cutting. As to the proper time to make cuttings, I should say it depends altogether on your stock; that is, when it is in the best condition—any time from November until May for winter blooming. After the cuttings are rooted I prefer planting them in shallow boxes, two and a half inches deep, with plenty of drainage. Keep close for a few days, then gradually harden them off. The cooler you can keep them, without freezing, the better; plenty of light and air is very essential.

In our locality we generally plant about the middle of April, providing the ground is in condition and the weather will permit. I believe the earlier this work is done the better. We always plant in freshly ploughed ground, and we never allow it to be turned over a night before planting. We keep as close to the plough as possible, and find it quite an advantage. Plants take hold in fresh ground very quickly. By keeping the weeds down, cultivating and topping, plants should be in good condition to house about the middle of September.

In the houses we plant altogether on benches, four inches deep, and we find this method suits us best. We gave up solid beds some four years ago. We do not like to lift plants too far forward in bud, as it checks them severely and is sure to tell for a long time afterward.

We find the crimson varieties hardest to move. Great attention should be paid these; they should be topped back about two weeks before lifting, as it helps them materially. A little shading will also help them. We have had no trouble with the other varieties we grow. Keep them close and well sprinkled for a few days, then air gradually.

FIRING.

This should be done early, or as soon as the nights become damp and chilly, even though you have to keep on a little air to reduce the temperature. It is at this period that most of the diseases are contracted.

WATERING.

This important part will depend on the composition of your soil. We ourselves have a very heavy loam, with considerable clay, and find that we can water only when the beds are quite dry. We then give them a thorough soaking, which will last one and sometimes two weeks, according to the weather (this is for the winter months). Syringing we do not find necessary during December and January, except in houses facing the south, as they require more airing. They will be benefitted by syringing on all very fine days, being sure the plants will dry before night. In houses with full southern exposure the culture of carnations differs much from that in dull, dark houses, partly shaded from morning or afternoon sun.

I prefer 50° for a night temperature as a minimum, raising it a little higher on warm nights and reducing it slightly on cold nights. For the daytime I start to air it at 55°, weather permitting, and allow the temperature to rise to about 75° by noon. This must be understood to be sun heat, not fire heat.

VARIETIES.

Last, but not least, come varieties. In white, with us, up to last winter, nothing could compare for profit with Silver Spray. Now, however, we have to look farther, and we have substituted Lizzie McGowan, which is recognized as the standard white of to-day. I believe there is room for improvement on this good variety; the flowers are not always of as good a form as I should like, at least in our locality. We have had very good success with Puritan, and must say that if it would bloom a little more freely we would prefer it to Lizzie McGowan, as the flowers are much better shaped. Mrs. Fisher will not do well in our locality, although we hear flattering accounts of it in other sections.

Pink.—This class has a very broad scope. I believe that Grace Wilder, which has stood the test against all later comers for many years, will have to succumb; but which of the varieties will be the standard pink is yet hard to tell. Of the thoroughly tested varieties Daybreak is the universal favorite, as it properly should be, though I do not consider this in direct competition with pinks of the Wilder color. We have had many introductions the past year or two, and quite a few look well. We should be able to select one or more varieties to fill the bill.

Red.—I have not been able to produce, as yet, a variety to satisfy me in this color. Portia stands first with me as a tested variety to date.

Carmine.—In this color I find Tidal Wave still in the lead, though it does not succeed in all localities. For me it has more good points than any other carnation on the market.

Crimson.—I find Ferdinand Mangold about the best, with some bad faults. Crimson Coronet has a good color, and is the best keeper in its class, though the flower is rather small.

Variegated.—J. J. Harrison, as a tested variety, easily leads. With me its greatest fault is an inclination to burst, but we are promised something better in this class in the near future.

Yellow.—This class, though beautiful, has not been satisfactory to most grow-

ers. Buttercup is fine, but does not pay. Golden Gate is not good enough, and the other yellows we have tried are not satisfactory, with the exception of Bouton d'Or, which has many good points, and, I believe, will be grown for profit. Much more could be said, but I fear I have over-taxed your patience. I thank you for your kind attention.

In the discussion which followed Mr. Coles asked as to the value of the plan of keeping plants under glass all summer instead of planting in field. Mr. Dailledouze replied that he had had no experience except with Buttercup. Mr. Allen had tried the plan but didn't want any further experience. He found that when grown under glass during the summer the plants did not bloom as early and did not have the strength and vigor of plants that had been bedded out. Mr. Dorner had also tried the plan and agreed with Mr. Allen. Mr. Witterstaetter told of the experience of Mr. Peter Herb which had been more satisfactory, but Mr. Herb had removed the glass from his houses during the most of the summer months. Plants kept on the benches grew larger but did not produce as freely as those which had been bedded. Still the quality of the flowers was superior and the stem was longer and stronger.

Mr. Witterstatter then read his essay as below.

Desirable Varieties of Carnations and How They May be Improved.

BY R. WITTERSTAETTER.

In preparing this paper on "Desirable varieties of carnations and how they may be improved" I shall only class as desirable those varieties that are early, prolific and constant bloomers. A desirable variety should possess most of the following points of merit: A constitution that is not so easily affected by the disease termed carnation rust. It should be an early constant bloomer, with long stiff stem and non-splitting calyx. The flowers should be of good size, form and substance. They should open well in the short days of winter, and the petals should not come crimped. The flower, when brought to perfection, should be full and high in the center, so as to show as little of pollen as possible. In my judgment any carnation showing the pollen in quantity is as objectionable as the chrysanthemum with an open center. This is not so noticeable in the yellow and white varieties as in the darker ones, but I consider it an imperfection nevertheless.

I have heard it remarked time and again that we have plenty of good white varieties. We have quite a number that are good in their way, but none of them give entire satisfaction. Silver Spray I have found most satisfactory, but this variety is liable to disease and undesirable on this account. Lamborn is a very good white, but fails to open well in the winter months. Wm. Swayne is only desirable when short stem flowers are wanted. Lizzie McGowan does well until winter, when it comes imperfect, petals reflex and calyx bursts. Hinze's White and Puritan have always proved too late to be profitable. Mrs. Fisher is not good as a winter bloomer, coming pink and weak stemmed, but as a summer bloomer I consider it the best white. From what I have seen of the new white carnation, Uncle John, I am inclined to believe it a desirable variety and worthy of a trial.

In light pinks we are more fortunate. I consider Daybreak by far the best and give it first place. Although not as free a bloomer as it might be it has always given satisfactory returns in comparison with other varieties. Edna Craig is of good form and color when grown to perfection. This variety grew strong and healthy in the field, and for a time after being housed it did very well, producing flowers of good color. When the winter set in, however, the blooms came off colored. Edna Craig is undoubtedly desirable under favorable conditions, and most likely requires entirely different treatment. Wm. Scott is much better in this respect and will be grown in place of Wilder when it becomes better known. The only objection to it is the superfluous wood all along the stem. Especially is this the case where staking has been neglected. Of the deeper colored pink Tidal Wave takes the lead. I doubt if there is another variety that gives the average grower as much satisfaction as this one. It never fails to open, is always in bloom and has a constitution second to none. Its only fault is its short stem in the early fall. Another variety of this color is the new Adelaide Kresken. This is far superior to Tidal Wave, having very much larger flowers of a more pleasing shade, and stems much longer.

In scarlets the only desirable variety is Portia. We are waiting patiently for a larger flower possessing the same good qualities. In crimson none are very satisfactory to the grower who consigns his flowers, as all lose their brightness after being cut. Those who have a home trade think Anna Webb and Orient, in the order named, most desirable. Mrs. F. Mangold is not the bloomer that Anna Webb or Orient is, but has a much larger and better flower when coming, but it never fails to burst its calyx, however, in the winter months when the blooms are most valuable. With the variegated sorts I have had little experience, as the Cincinnati trade does not demand this class. I have tried Chester Pride, J. J. Harrison and Paxton, but found them shy bloomers in the fall and winter months. Our list of yellow varieties is very limited, and consequently we have few that come anywhere near being desirable. Buttercup ranks highest. Golden Gate is entirely too small. This, however, would not be an objection if it would not persist in splitting its calyx. Pride of Penhurst and Field of Gold are too late. They can not be brought in earlier than March. As a cut flower Golden Triumph is altogether out of the question. Why it was ever put on the market as such is more than I can imagine. There may be desirable varieties not mentioned in this paper, but having had no experience with them, and not having seen them growing, am unable to express an opinion in regard to them.

HOW MAY THESE VARIETIES BE IMPROVED?

I fear what I have to say will add but little light to that which is already known. Cuttings should be made from blooming wood, as they without doubt make the stockiest plants. Potting them is preferable to planting them in boxes, for the reason that when treated in this way plants receive no check until lifted in the fall. Another advantage is that planting can be deferred until later in the spring, when danger of cold and severe rains is over. I have found that cuttings treated in this way and planted out about the middle of May always make the strongest and healthiest plants. A further advantage in this treatment is that when you are ready to lift them you have a fine ball of thickly netted roots the size of the pot, and this will greatly help the plants to recover when inside. This may not be considered an advantage in sandy soils, but in clay it undoubtedly is. Probably you have had a bad case of rust on your place. It is in your power to prevent its occurrence to some extent by thorough and frequent cultivation in the field. What I mean by this is, you must keep the soil in a mellow condition. This can be done only by attending to it after every rain, no matter how light or frequent, always waiting, of course, until the soil is in condition to work. The idea is to be prepared for the drouth that comes upon us in July or August. Plants treated thus will be less liable to the attack of rust which is sure to follow with moist, cool nights to plants that have already suffered more or less during the trying ordeal. This is especially true with varieties which are more inclined to this disease, such as Silver Spray and others of like nature. To illustrate I will cite a case coming within my own observation and let you form your own judgment. The year Ben Hur was disseminated the plants were entirely free from disease. They were potted and after making large enough growth to allow the tops to be used as cuttings were topped, placed out in frames and then planted out in the field, doing very nicely. About the 22nd or 23d of June we had our last rain, which was very heavy. The soil was not in condition to be worked for eight or ten days after. We neglected hoeing until the soil became quite hard and dry. This left the plants in poor shape to withstand a drouth. Consequently they suffered greatly, and when the rain came and with it the cool, moist nights they fell an easy prey to the disease. The tops, when rooted, were potted in due time and planted out about two weeks before the rain. On account of being late in planting and small they were not neglected. They were hoed and mulched and watered once. These withstood the drouth remarkably well, and by fall made fine, healthy, little plants entirely free from rust. Experience has taught me that plants affected with rust had best never be housed, as I have always found it uphill work to free them entirely from the disease.

In housing the plants in fall I have always found that they do best in new soil. Judgment should be used in planting strong growing varieties far enough apart to allow them room to spread and not meet each other until January, as from this time on the conditions are not so favorable for the rust. Cultivation should be attended to. The soil should be kept in a mellow condition, but this should not be done before the plants are fairly well established. Ventilation should be left on night and day, even during nights when fires are necessary in early fall. Everything should be done to have the plants in as healthy condition as possible by December 1. Always attend to ventilation the moment the sun strikes your houses. Do not wait until the temperature is the required height, but begin at once, so that your rise will be as near nature as possible. Great care should be taken to have plants perfectly dry over night; they should never be watered overhead when there is danger of their remaining wet any length of time. This can only be done in early fall and late spring. All remedies as preventives of the rust can be used by spraying at this time, but when firing should be applied to the pipes. For this use sulphide of potassium, as sulphate of copper is liable

to ruin the pipes. I have always found cool, wet weather most favorable for the disease, and on all such occasions put on heat and open ventilators. I have found that by strictly adhering to these directions the health of the plant is improved and disease is less liable to attack them.

To improve on "desirable varieties" from seed, I have had but two years experience and perhaps what I have to say is mere theory. I have found that I can reproduce the color of Daybreak by using Silver Spray and Tidal Wave, using Silver Spray as the seed parent, but could not get anything near this color when crossing with W. F. Dreer. This cross produced more deep pink and purple, which goes to show that the result is entirely different, as far as color is concerned, when using the same seed parent, with different varieties of the same color, as the pollen parent. As to constitution it is not necessary that both varieties used in crossing should be rust-proof to produce a healthy constitution, as I found in the eight varieties which I saved for further trial from the cross of Silver Spray and Tidal Wave. Of these eight varieties three were subject to rust and the rest were free from it. They were all grown in the same house and no fungicide was used to prevent the disease. The blooming qualities take more after the pollen parent. This trait I have found in all the other crosses with the exception of one, namely, Tidal Wave with Fred Creighton. In this case the blooming quality took after its seed parent. Silver Spray seed always produces more or less purple varieties. Its own flowers being at times tinted with this shade I am inclined to think that it originated from some variety of this shade in an earlier generation. I think it is very important to know the ancestors of any variety on which we work, and by keeping a strict record of what different crosses bring forth, to learn how many come single, how many double, how many are of good form, how many are weak stemmed, how many strong, how many come with a strong constitution, how many with a weak one, and numerous other points, all of which it takes to make a desirable variety. We may by studying such records be able to bring to light the probabilities of producing the "ideal desirable variety" that shall possess the blooming qualities of a Silver Spray, the stem of a Daybreak, the form of a Buttercup, the constitution of a Portia and the size of a Malmaison.

Mr. Lonsdale asked the essayist if there were any varieties that could be considered rust proof. He replied that he had never seen any rust on Portia or Daybreak, and but very little on Buttercup. Mr. Ward had seen rust on both Portia and Daybreak but never on Buttercup. Mr. Lonsdale felt that no one could safely guarantee any variety as rust proof.

In the abscence of Mr. Walter Muston his essay on "Carnations in Canada" was read by Secretary Pennock.

Carnations in Canada.

BY WALTER MUSTON.

The carnations we grow in Canada are in the main the same as are grown in the United States; some kinds do well with us, some do fairly well and some do no good at all. The carnation that heads the list with us is Daybreak. Wherever we see it grown it is in fine shape; from the man that grows a hundred of it to the one who grows thousands of it the same is said of it. It has a fine constitution, is a vigorous grower, can be picked with good long stems and is always in demand; in fact it seems to be no respecter of places like most varieties, but grows well everywhere and in any soil. I hardly know which to place next on the list, some kinds doing better with some than others. Silver Spray used to be the stand-by for white, but it is acting badly now; its flowers come small and streaked and it is not the carnation it was a few years ago. Some grow Lizzie McGowan, but it does not seem to do well and the flowers do not have the symmetry that we look for in a carnation. A few grow Hinze's White (ourselves among the number); it perhaps does not give as many flowers as some of the other kinds because it is a cropper, but its blooms with us command as high a price as any of them and to a grower who has to sacrifice some plants to obtain room I think it will pay as well as any of them. White



EUGENE DAILLEDOUZE, PRESIDENT ELECT OF THE AMERICAN CARNATION SOCIETY.

Dove does fairly well with some growers and some complain of its being shy. In red we have Portia and Garfield, one kind doing best with some growers, and vice versa. These are the leading kinds that are grown. Tidal Wave is grown some and does well, but there is not a great demand for it. Puritan some think well of, but with us it has not acted well; its flowers do not open at all, but just dry up on the stems.

Among the new ones William Scott takes first place; it seems a vigorous grower, blooms freely and is healthy. Edna Craig is so badly diseased as to be practically useless; indeed out of about five hundred plants that I have seen there was only one plant that was healthy, and that had one flower on it at the time and it was a beauty. Mme. Albertini so far has been too shy. Buttercup we cannot grow at all; it has been tried repeatedly by all the principal growers around this district, but no one could do anything with it; we have tried it several times and have bought several different batches of cuttings, but they grow poorly outside and when taken into the greenhouse they would grow beautifully less and less until we had to throw them out and put something else in their place. Grace Wilder, which for years held the place in this country for pink, was nearly as bad; no one could grow it successfully. Its flowers would come streaked and the Canadian florists hailed the advent of the Daybreak with delight. Mrs. Carnegie used to be grown here a great deal, but has been dropped lately; it does not grow and bloom as it used to and like Spray it seems to be on the downward path. Its place is well filled by J. J. Harrison, which is grown by us all and is thought a great deal of. In crimsons we have none at all that are satisfactory, and they do not seem to be missed.

Our culture does not vary a great deal from yours. We strike the cuttings any time from January on; some growers plant them in flats at once and leave them there until they are planted in the field, some pot them first and then transfer to flats, and I think this latter is far the best plan; it takes up considerable more room, but I think it pays in the end, the advantages being that you get much finer plants to start with, your plants do not get pot bound, as they would if left in the pots, and do not strip when planted outside, and so do not get such a check as they would if they were left in the flats at the time and then badly stripped, as they generally are on account of the roots spreading so much. The advantage of this mode of treatment is especially seen if it happens to come dry weather directly after planting out and especially now that we have so much disease floating around ready to work on the plants at the least opportunity. Take a plant that is badly stripped when planted; it is small and has few roots and perhaps has lost some in being transferred from the flats to the field, the weather is dry and the plant has scarcely any moisture to feed upon and it is at a standstill; is not that a fine chance for any disease to ravage it? I think perhaps the potting of the plants is more important with us than with growers in the U. S., as our summer is shorter than yours, and we have to get as much growth in a shorter time. We do not plant out until the latter end of May, and we often get a spell of hot dry weather in the beginning of June, and for myself I like to water the plants a few times in such a case, as I think it helps to give them a good start and to make a vigorous growth, which is I think one of the best preventives against disease. There is one thing I think that we have in our favor and that is we nearly always get cool nights in the summer, no matter how hot the day, and this is claimed by some to be an advantage in our favor. The soil is kept cultivated and free from weeds and the plants pinched as every grower thinks best. As a rule we take hold of the end of the young growth and give it a sharp pull, which just takes out the center bud, but does not take away any growth. We lift in September; some growers prefer to lift with a ball of earth; some prefer to shake all the soil off them, but I think that is governed a great deal by the nature of the soil, some growers having a light soil which will not stay on the roots, but falls off, leaving all the fibrous roots intact. Our soil being a heavy clay, if we lift in a dry time, as generally recommended, we lose a great many roots, as the soil breaks up in large lumps, clinging to the roots with such tenacity that no matter how careful we are we are bound to lose a number of roots. I remember on one occasion starting to lift in the afternoon; the soil was quite dry and the plants stripped badly, but during the next night it rained and the plants lifted nicely the next day with a nice ball of earth, and the difference in favor of the plants lifted after the rain was quite noticeable all the season, and they were standing upright and had started to make nice roots some time before the others.

As we have no carnation specialists in Canada, they are grown in the largest quantities by men who grow roses and other cut flowers and they do not go to any particular trouble in procuring a

special soil, but grow them in the same soil as they do their roses unless it happens to be very heavy, and then they mix some sandy loam with it. I do not know of anyone that has tried old soil, neither have I seen anyone growing them in solid beds, they all seeming to prefer benches with about five inches of soil. We have the same diseases to contend with as you gentlemen have, but I think the worst is the rust, and from my own observation I find that while no varieties seem proof against it the least vigorous plants suffer the most. If any kind seems to be in a place or soil that is not suited to it and gets the rust it seems to spread more rapidly than it does on plants that are healthy and growing vigorously. Our treatment in the greenhouse is the same as yours and has been published in the different papers. In watering we prefer to let the soil get rather dry and then give them a good soaking. We do not syringe as a rule during December, January and February, although I have done so on all bright days, the same as roses, and did not notice any bad results from it, but that was in a three-quarter span greenhouse where the sun had every chance to dry the moisture up before night. In the raising of seedlings Canada has yet to be heard from, and as a number of men have taken that branch up I do not think it will be very long before there will be some Canadian seedlings on the market, as several have seedlings that promise something good.

President Hill then read Prof. Bailey's paper on "Border carnations."

Border Carnations.

BY PROF. L. H. BAILEY.

A year ago I urged upon this society the importance of encouraging the cultivation of the outdoor or border types of carnations, which have been an important feature of European gardens for centuries. I then called attention to the fact that only one of the several leading families of carnations is commonly known in this country—the winter or forcing types. It is a signal illustration of the fact that plants adapt themselves quickly to our own ideals, that the great development of our greenhouse gardening in recent years has resulted in a wonderful evolution of forcing varieties and in a corresponding poverty of border varieties; so that while the border varieties are the original stock from which all other types of carnations have come, and are still the most important family across the Atlantic, in this new country, with distinct ideals, the children have far outnumbered and even obscured the parent. These two great groups of carnations are opposed to each other in various attributes, but particularly, I think, in three. The border varieties are low or rather dwarf and tufted; they produce the greater part of their bloom in a comparatively short space of time; and the individual flowers need not be very large. The forcing type demands a very tall plant and it loses its habit of standing erect; the production of flowers is distributed over several months; and the individual flowers must be large. In short, in the one case, the ideal lies in the plant and its effect as a mass; in the other the only ideal is the individual flower.

I have insisted upon this antithesis in these two types of carnations in order to correct what I believe to be a wrong tendency in the attempt to popularize outdoor or border carnations in this country—the belief that the forcing varieties can be adapted to this purpose by propagating them in summer or fall and thus changing their season of bloom. It is true that the forcing kinds will grow and flower well under this treatment, but they are not the type of plant which is adapted to the requirements of out-of-door ornamentation. For this purpose we need a plant which needs no staking, which will give a definite and emphatic season of bloom by means of which strong effects can be produced; and the size of individual blooms can safely be sacrificed to productiveness and habit of plant. It is obviously unwise to attempt to impress forcing varieties into service in the open, and it would be a loss of time and effort to endeavor to breed adaptive varieties from them. We should begin, as a foundation, with the best existing border varieties, and endeavor to adapt them, by intelligent cultivation, to American conditions. And it is from these border carnations, too, that we are to expect the best varieties for pot culture.

If we fully accept the above propositions I am sure that we shall find little difficulty in growing border carnations in America. Gardeners of foreign birth often dismiss the hardy carnations by saying that our climate is too hot and dry for them. While there may be much truth in this position it is also true that many and perhaps all of the border varieties can be grown here with little trouble. Some persons have grown them with perfect satisfaction for years, and visitors to the World's Fair in early August must have noticed a glowing bed of them upon the wooded island. In order to determine if these plants can be successfully grown with only ordinary care, such as any person can give, we secured seeds in the spring of 1892 of the following strains: Early Margaret, Self Colored, Early Dwarf Mixed Vienna, Red Grenadine, Splendid Rose-leaved, Picotee and some others. These were sown in boxes in the greenhouse on the 8th of March, but they might just as well have been sown out of doors when the season opened. The plants were set in the field as the season advanced. A few of them bloomed in the fall. They were allowed to grow through the winter wholly unprotected, although they grew upon a bald hill top; and the last winter was severe at Ithaca. They all wintered well, and they began to bloom about the middle of June and gave an uninterrupted display of bright colored and interesting forms until late in August. Although the lot was a mixed one, having come from seeds, all the varieties were interesting, particularly the single flowers. If any one strain were more pleasing than another it was probably the Vienna, which bore single and semi-double little flowers of very pure and dainty colors, ranging from ivory-white to rose-red. Some of the plants had been taken up in the fall and removed to the house for winter bloom, and here, too, the Vienna was very pleasing. These hardy carnations are perennial, although so good results can not be expected from the subsequent seasons of bloom, and it is best to raise new plants annually. A collection of the best named border sorts from Europe would undoubtedly afford some excellent varieties for this country. At all events they could be depended upon to give perfectly adaptive offspring in the course of a very few generations of plants.

In the discussion Mr. Hancock said that some years ago he imported some 120 varieties of the English border carnations and he had been sadly disappointed in them. The flowers were not equal to those of our own varieties, the blooming period was very short and but few had the upright growth essential in a border plant. Mr. Hill had tried several varieties and Pride of Penshurst, yellow, was the only one that was of any value, and the value of that was not great. When in Erfurt he had seen acres of the plants in bloom and they were a grand sight. The wealth of bloom was truly marvellous. He invested several hundred dollars in the plants but a year later he had nothing left to show for his investment. Mr. Lonsdale said that the cultivation of the border carnation in England was not so general as seemed to be supposed. It was only in certain favorable localities that quantities are grown.

The paper by Prof. Wm. Trelease on "Carnation root galls" was then presented, and drawings showing the progress of the disease were passed around among the members. We shall print this essay in next issue with engravings from the drawings mentioned.

A question from Mr. Long brought out quite a discussion on the keeping qualities of carnations. He stated that during a stated season flowers sent him had been uniformly worthless the second day though flowers from the same grower had always kept well before. Mr. Sunderbruch thought that the trouble was due to cutting the flowers when the bench was too dry, or not stood in water before shipping. Mr. Dailledouze said he always cut flowers 24 hours before shipping and stood them in water during that time. Mr. Allen thought the trouble had been due to a stretch of dull weather coupled with possibly too much heat, making the flowers soft. Mr. Dorner agreed with Mr. Allen. He also held that flowers should invariably be cut and allowed to stand in water for from eight to twenty-four hours before shipping. He found that this materially increased the size of the blooms as well as their keeping qualities. He was also careful to never cut flowers from plants that had been allowed to flag in the least. Mr. Ward said he cuts his flowers early in the morning, before the bright sun strikes them, puts in water for a few hours and then ships.

This concluded the regular program. Votes of thanks to the Society of Indiana Florists, the Indianapolis Florists' Club and the daily press of Indianapolis were passed, and on motion the society adjourned to meet again in Boston the third Thursday of February, 1895.

The Banquet.

The banquet on Tuesday evening tendered by the Society of Indiana Florists and the Indianapolis Florists' Club was an event that will be long remembered by those who were fortunate enough to be present. The menu was excellent, the toasts were responded to with grand effect, and the decorations were superb. The tables were decorated with handsome plateaus of various flowers at intervals of eight or ten feet, connected together by bands of bloom through the center of the tables. At the head of the table this band was studded with cattleyas. The arrangement was done by Miss Emily Dorner and Mr. Ed Bertermann, and was worthy of all praise. The room was decorated with palms and similar plants, and the pillars and side walls were effectively draped with vines. With the arrival of the coffee and cigars, Mr. Hill

announced the unavoidable absence of President Hunt of the state society, owing to the illness of his wife, and introduced Mr. W. W. Coles, president-elect, as the presiding officer for the evening. Mr. Coles spoke of the great progress made in floriculture in Indiana since the organization of the state society seven years ago, and he was proud to claim as a member Mr. Fred Dorner, Mr. E. G. Hill and others. He recited a "poem" that would have been worthy of Deacon Harris, of Philadelphia. To correct a false impression he stated that Indianapolis was not "out west," but was the first good stopping place on the way. An Indianapolis Glee Club then rendered a selection. The club was a feature of the entertainment, and generously responded to many encores during the evening.

Mr. H. N. Spann, an amateur, welcomed the visitors on behalf of the local club, and he was a host in himself. He mingled humor and pathos in his address, and his speech was received with long and continued applause. He said that he wanted it understood that as a state Indiana was all right. It was first in politics, last in politics, and always in politics. Indiana had produced many excellent things, not the least of which were Dorner, who raises magnificent carnations and White Caps, who raise h——. He extended a hearty welcome to this modest state, and if anything was lacking in his speech he assured his hearers it was in his heart. To be a perfect florist one must be a lover of the beautiful, of the beautiful that comes fresh from the hands of God. Every flower that is born is the child of the Creator, and no man, no matter who he may be, has ever produced anything as beautiful as a flower. God may have produced more beautiful things, but if so He has not revealed them to man. In producing new carnations the two flowers must be brought together in holy wedlock. Back of the new flower must be intelligence, painstaking and continued effort. What the amateur don't know about flowers would fill several volumes, but what he thinks he knows would fill a library. He made many hits on local characters, and said that in Garfield Park they now raised grass, weeds and politicians. He had discovered that Mr. Langstaff had been putting the salted almonds in his pocket under the impression that they were the seed of a new kind of sun flower. Local florists had been discussing the necessity of a floral market, and one member of French descent had related one of his experiences at the present market, at which the horses of the market men have much latitude. He said: "I show a fine chrysanthemum to ze lady, and as I show zem to ze lady ze horse bite ze head off," and, added the speaker, it is a question in the club to this day whether the horse bit off the head of the chrysanthemum or the lady.

Mr. Coles then introduced the Rev. Mr. Carmody as toastmaster of the meeting, adding that he understood the title had been picked up on the Midway Plaisance. Mr. Carmody announced that being placed at the handle of the pump he would work it for all it was worth, and guaranteed to secure a stream of eloquence, which he did. He said all the railroads of importance centered in Indianapolis, that Indiana had more railroads than any other state, and as a nation could be called a car-nation, and a fit home of the flower in whose honor the present meeting was held.

Mr. Hill then read letters of regret from Messrs. Wm. Scott, of Buffalo, B. P. Critchell, of Cincinnati, J. H. Ladley, president of the Chester County Carnation Society of Pennsylvania, and others. The first toast was "The American Carnation Society and its future," which was ably responded to by Mr. C. W. Ward, of Queens, N. Y. Mr. Ward compared the carnation of five years ago to that of the present day, and held that the society had done much to make possible the marvelous advancement. The future is full of possibilities, and Mr. Thorpe's ideal is now at hand. He paid a glowing tribute to Mr. F. Dorner for his work in the production of the improved varieties.

Mr. Edwin Lonsdale, of Philadelphia, responded to the toast "The carnation in its commercial relation to the rose." He held that there could be no war between two classes of flowers. The better you grow the carnation the better will be the demand for roses equally well grown. We must produce a good article and then ask a good price for it. If we don't get all there is in it it's our own fault. He held that such carnations as were shown in the present exhibition could be made to bring as high as $15 to $20 a hundred if properly placed on the market. While there is always a glut of poor stuff there would always be a demand for fine stock at remunerative prices. At the conclusion of his address Mr. Lonsdale responded to a request for his famous song, "The Brave Old Duke of York," and all joined in the chorus, including the glee club.

"New carnations and their desirability" was the subject assigned Mr. C. J. Pennock, of Kennett Square, Pa. He threatened to read some forty pages of typewritten opinions on the subject, the reading of which would only take two or three hours, but finally forbore and dismissed the matter by saying there could be no question as to the desirability of new and improved varieties.

"Our friends, the professors in the experimental stations," was responded to by Prof. J. C. Arthur, of Purdue University, Lafayette, Ind., in a felicitious address that won rounds of applause. Some paper carnations that filled the "Ideal" were displayed on the tables. They had been brought by Mr. Michel, of St. Louis, who had discovered them in Brooklyn, and in response to a request he described how these grand flowers, four inches in diameter, and with four foot stems, had been produced to order at only twenty-four hours notice, showing that it was no great trick to reach the ideal in short order.

"Our allies—the horticultural press," was responded to by Mr. G. L. Grant, of the AMERICAN FLORIST. He looked upon the horticultural press as a means of greatly extending the educational influences of such meetings as the present, and of bringing the most distant into closer relationship with each other. It was through the press that the trade was first made aware of the fact that a new carnation star had arisen in the state of Indiana, which has since shed so much light on American growers. Through the medium of the press the speakers at the present convention were addressing not only those present, but thousands of others all over the country, and the audience by this means included every florist in the land.

In responding to the toast of "The society of American Florists," President J. T. Anthony, of Chicago, said: "Less than a dozen years ago the society of American Florists existed only as a visionary creation of the brain. If anyone prior to that time had thought of the need of such a society in this country it was quickly laid aside after reflecting upon the difficulties attending the formation and chances of maintaining such a society, The society of American Florists is an infant in years, having passed less than half the years of its majority, yet in our short existence we have gathered around us quite a number of strong and vigorous offspring, all of which we most earnestly desire to recognize us as the parent and to some extent the foundation upon which all should rest. It is generally believed that within a very short time the society will have granted to it a national charter, in which case it will be desirable to have the carnation, the chrysanthemum, the rose, and other offsprings from our society become more closely allied to the parent society. While we would not for a moment wish to interfere with the noble work of either of these societies in their chosen field of research still I think this can be better accomplished by a closer alliance with the society of American Florists."

"Fall exhibitions, how to make them useful factors in promoting the interests of the carnation?" was responded to by Mr. A. M. Herr, Lancaster, Pa. He said that the subject required more work than talk. By following Mr. Dorner's plan, and adding pot plants as a feature success would be attained. Mr. W. R. Shelmire, of Avondale, Pa., responded to the toast "The Chester County Carnation Society." He said: "If any one supposes we have as yet reached the acme of perfection he is sadly mistaken. It is very true the alloted time has about passed and Mr. Thorpe's ideal, as he painted it is not present with us to-day. But the progress from year to year is steady and sure and the flowers exhibited here show a decided advance on those shown a year ago at Pittsburgh. But a glance into the future reveals a wonderful development. Forms we have never dreamed of, colors rivaling (for they could not surpass) those of the rainbow, perfumes as the spices of the south seas. The carnation is plastic as clay in the hands of the potter, and, as we grow in knowledge and master the intricacies of cross-fertilization we shall produce those things, wondrous flowers, beauty in every petal, grace in every stem, their fragrance a delight to the senses. We will have particular races for special purposes. The dainty small flower of exquisite shade and perfect in form. The larger flower, three to four inches we will say with stiff long stems, expanding petals and colors of every hue. We will have the Dorner stock and the Lonsdale stock and the Swayne stock, and the Pennock stock, and the Ward stock and the Cæsar stock, and innumerable other races. And they will all fill their alloted mission. We will have also the rose flowered and the aster flowered and the sun-flower flowered. The flowers will be a foot across with stems five feet high and as thick as a corn stalk, and they will cost $10 apiece. We will have the pæony flowered and lastly those which partake of the nature of the "mum." Think not, gentlemen, this is but a dream of fancy. The chrysanthemum flowered carnation is a veritable fact and we will have them in the various shades and colors peculiar to the dianthus race. Let me describe this new carnation wonder. The bud is flat resembling that of a chrysanthemum. The stem is thick, stiff and erect. The leaves are rather broad with a graceful curve. The flower expands slowly at first, pushing its petals out flat. These recurve and twist. The center ones grow up and likewise twist, gradually expand-

ing forming a somewhat round head. Here we have a flower, easily taken for a "mum." More singular yet the flower is compound, not indeed in the same manner as the composite family, but around the central ovary there are several florets which throw out separate petals and often stamens. The ovary also frequently throws up petals instead of making seed. The flowers expand 3½ to nearly 5 inches and remain open a long time. This is not a monstrosity, it is a progenitor of a new race, and we can only dimly see the future. Now we can say the queen of autumn had better be looking to her laurels. The carnation suffers immeasurably for a few months in the fall by the chrysanthemum craze. If she can be met on her own ground and the new rival usurp the throne of this cabbage headed queen, all carnation growers would rejoice with exceeding joy and be profoundly thankful for the good time to come."

Mr. Dorner was called upon, but excused himself on the plea that it was easier for him to raise a new carnation than it was to make an address. In response to calls addresses were made by Messrs. Frank Alley and John Hartje, of Indianapolis, and E. G. Gillett, of Cincinnati. Mr. Wallace sang a song that was well received and Mr. Hill made some closing remarks. Three rousing cheers were given by the visitors for their hosts and the company dispersed after a most enjoyable evening.

Society of American Florists.

The annual meeting of the executive committee of the Society of American Florists was held at Philadelphia on Tuesday and Wednesday, February 13 and 14. Several members of the committee were absent on account of sickness and for other causes. The session was very harmonious and the interest manifested in the work of the society indicated that the members of the committee are fully alive to the importance of the coming convention at Atlantic City, which will in all probability be the largest gathering in the history of the society.

The following subjects were selected to be presented at the convention in the form of essays:

The value and importance of statistics, foreign and domestic.

Floriculture, its progress from an artistic standpoint.

Orchids as commercial flowers.

Greenhouse construction (by a constructor and by a practical grower).

Insecticides and their application.

Fertilizers and their application.

The best methods of growing roses, and best varieties for present demands.

Cannas.

Carnations to date (under auspices of the Carnation Society).

Recent improvements in chrysanthemums and their culture (under the auspices of the Chrysanthemum Society).

The committee on the matter of fire insurance for greenhouses reported progress and are in hopes to make some satisfactory arrangements in the near future. The committee on charter has also been busily at work. They strongly urge that every member of the Society of American Florists communicate with the Congressman representing his district and endeavor to get him interested in the passage of the bill of incorporation when it is reported to the House by Mr. Hatch's committee.

Owing to the attractions peculiar to Atlantic City it was decided that the evening sessions should be omitted during the convention at that place and afternoon sessions substituted. On recommendation of the Philadelphia Florists' Club Mr. George C. Watson was elected to the position of superintendent of the trade exhibition. Orders were given for a new die for the society badge, which will be superior in style and finish to that used heretofore.

The following resolution was unanimously adopted:

Feeling that in the death of George W. Childs humanity loses a champion and desiring to spread upon the records of our society some expression of the feelings which animate the hearts of our members; therefore,

Resolved: That by this sad event horticulture has lost a sagacious and enlightened counselor and patron, the world a benefactor to the friendless and unfortunate, one whose great loving heart was always open to the cry of the widow and the homeless, one who was always relieving the wants of the friendless and unfortunate, a pure and devoted philanthropist and an ardent defender of the rights of men.

Resolved: That we tender to Mrs. Childs our heartfelt sympathy in her great sorrow and bereavement and we mourn with her the loss of one of God's noble men.

[See Philadelphia notes for report of banquet.]

Philadelphia.

Wednesday evening, February 14, was a gala night for the Florists' Club, they having for guests at their annual banquet the executive committee of the Society of American Florists. The headquarters of the committee being the Colonnade Hotel arrangements were made here for the banquet, which was served in mine host Crump's best style. There was no attempt at elaborate decoration, although there were some very pretty plateaus of flowers and foliage and vases of choice blooms of roses and carnations, arranged in the centers of the various tables. At the head was a vase of Helen Keller carnations, magnificent flowers placed there to add inspiration to President Lonsdale. Directly in front of these was a plateau of fine foliage plants, as pretty as flowers (they should be used oftener), either side of this a short distance away was a plateau of cattleyas, and at intervals down the tables were baskets of daffys, roses and mixed flowers. Of the old style was a plateau of camellias, and another of acacia, and one of poinsettia sent in by Brother Westcott, and there were some vases of choice carnations, some Bouton d'Or, the new yellow sent by Dailledouze Bros., a very fine variety, and some very good flowers of different varieties from the Cottage Gardens, sent by Mr. Ward. There were also some plants arranged about the large mirror at the head of the table, the mantel being banked with Farleyense ferns, in which was a cluster of Harrisii lilies. Asparagus was also draped on chandeliers and the lace curtains over the windows.

On President Lonsdale's left sat the retiring president, W. R. Smith, while on his right was President J. T. Anthony; next him were Judge Hoitt, Mr. H. B. Beatty, Mr. J. C. Rennison, Elijah A. Wood, Eugene Dailledouze, Major Bonnaffon and John N. May. On ex-President Smith's left were ex-President Robt. Craig, Secretary W. J. Stewart, Ernst Asmus, E. H. Michell, of St. Louis, who was a substitute for Mr. Waldbart, E. A. Seidewitz and Mr. Feast of Baltimore. Among others from a distance were Messrs. Holzapfel, of Washington, Renard, of Unionville, Herr and Shroyer, of Lancaster, and Alex Wallace, of New York. Everybody seemed in the best of humor, and the way Major Bonnaffon and a certain individual called Dan kept "Woody," who happened to be across the table from both of them, from going to sleep was great amusement for those within hearing. Elijah wasn't caught napping very often, however, and although it was two to one, and the one not very large at that, he held his end up in great style.

After the cigars had been passed around President Lonsdale called for order, he made a short address of welcome to the executive committee, in which he said he was very happy to have the pleasure of their presence, and introduced Mr. Craig as the toast-master of the evening. Mr. Craig made a short address and spoke feelingly of the late Mr. G. W. Childs, he alluded to the Philadelphia convention when Mr. Childs did so much for the members of the S. A. F., and said that he would always live in their memory. For the first speaker he introduced ex-President Smith as one of the brightest lights in the society, and one to "whom the nation turns for what is best in botany and what is best in Burns," alluding to Mr Smith's love for the Scotch poet.

Mr. Smith said that one of the grandest thoughts to him was that he was an honorary member of the Phila. Florists' Club and he was proud of it. He was also retiring president of the S. A. F., a higher honor no man need want. Presidents of Republics may be grand, but presidents of Florists' Associations, those noble people who are elevating mankind and doing so much to stimulate the esthetic soul of the American people, are the grandest people on the face of the globe. The honest, manly, American florist will occupy the highest position possible for man.

President J. T. Anthony was now introduced and stated that he was not much of a talker, but tried to be a worker, that if in his position he made any mistakes they would be failures of the head and not of the heart, he had the good of floriculture and horticulture at heart as much as any one. He predicted a great convention at Atlantic City next August, and said that he was sure that the Phila. Florists' Club would do all in their power to make it a success.

Judge Hoitt was the next speaker. He said this was his second visit to Phila., he had been asked to speak on legal points for florists but said he wouldn't, his friend Burton for one didn't need any and he would spare them. He thought Atlantic City was a very satisfactory place to hold the convention and predicted a large attendance; he said he had been to other places where they had beaches and water and been much benefitted by it. He hoped they would come to New England some day so that he could return in a manner the hospitality of the club.

Mr. J. C. Rennison, of Sioux City, was asked to respond to the toast the Far West. He said he was from pretty far west where they had buffalo and Indians, but he was no speaker and asked Judge Hoitt to tell what he knew of Sioux City. The Judge gave a humorous account of a visit there and said that if any present wanted to enjoy true western hospitality they should go west and call on Mr. Rennison, who would he knew be very glad to see them and would treat them in true

western style, he spoke of the railroads and more especially of the terminal facilities, which he said were superb.

Mr. Wallace, of New York, now favored the company with a song which was well received.

Mr. E H. Michell, of St. Louis, now responded to the call of Mr. Craig. He said that while it was a great pleasure to be entertained yet it was a greater one to be the host. He said that they in St. Louis were glad to have had those who were present last summer, but would have liked to have had more; he spoke of the great possibilities of the southwest, and thought it was the place to carry out Mr. Smith's idea that many things that we imported might with a little experience be grown in that neighborhood, and much money that went abroad could in this way be kept at home.

Mr. H. B. Beatty, of Oil City, was introduced, and began by saying that if he had the talents of the distinguished general who marched his men so untiringly up the hill and down again, or was like his friend the able, brilliant, but forgetful Robert, or had the grace and dignity of my friend from Washington, he might be able to do justice to this occasion and to this City of Brotherly Love, around whose name is clustered all that is noblest in our nation's history. Here was born the stars and stripes which now and forever shall stand for all that is best and noblest in our nation's life. Here the cradle of liberty was rocked in unison with the tones of that beloved bell which tolled the doom of monarchy in our wonderful country and made possible for you and me the American Beauty. In the inmost recesses of our hearts there is enthroned a queen, and to each of us severally she is the only American beauty, beside which the brilliant queenly American Beauty pales and is forgotten. Here's to the health and happiness of our absent ones, but ever present in our hearts, the American Beauty, our wives and sweethearts.

George McMillan here sang a comic song, after which Secretary Stewart, for whom the song of "He is a jolly good fellow" was sung with a will, as it was in fact for all the other jolly good fellows who spoke, was introduced as a friend and worker for the society since its inception.

Mr. Stewart spoke feelingly of the loss the press felt in the death of Mr. Childs, and said that Phila. had a long record for her horticultural press. The old *Gardeners' Monthly* was the only horticultural paper of its day, and all we had for many years. The horticultural papers have a great mission to perform; it lends its support to the right, condemns the wrong and is doing everything it can to advance horticulture. All should help the press, as all ground needs some return for the crops it gives, so it is with the press. In conclusion he said he was glad to be with them and wished to thank them for their hospitality, which was so great that a fellow had to be on the lookout or he was in danger of being sent home with the short span to the south.

E. A. Wood was now introduced as the last of the executive committee, but not least by any means. Mr. Wood answered in a humorous vein; he said that it took experience to know just what to do, and he thought the fellows who said it was best not to have evening sessions at Atlantic City spoke from experience. He said he liked to come to Philadelphia, that he felt more at home here than in any other city he visited. He predicted the meeting next August would be as large as any held anywhere and thought Boston would send her largest delegation to Atlantic City. He was then called on for "Jingle Bells," which he sang in good style, and in which the company joined keeping time on their glasses.

Mr. Shroyer, of Lancaster, was introduced as coming from a city which had more glass to the population than any other place in the country. He gave a humorous account of Mr. Smith's headquarters at Washington and hoped that everybody would visit Lancaster, and he could assure them they would not regret it.

Secretary Farson was now asked to explain some reference to him by Mr. Shroyer, and after having disposed of that gentleman he turned his attention to other speakers whom he said might make money by going into the stump speech business; they knew so well how to work the patriotic racket, it was our tender spot. Whenever the cradle of liberty was rocked and the Independence bell was rung everything was lovely and the visitors owned the town, even the last cent would be spent if necessary for their comfort.

Mr. E. A. Seidewitz, of Baltimore, said they had tried very hard at Toronto to get the society to come to Baltimore, but his worthy Washington friend had been too much for them, however. Some day in the future they would give them another invitation and hoped they would be more successful. He spoke of the achievements of Baltimore florists of the past and alluded to the death of Mr. Childs, who while he made his home in Philadelphia yet was a Baltimorean by birth and they all felt his loss keenly.

Mr. John N. May, who was the last speaker, said he had hoped to escape, he was like Mr. Anthony, more of a worker than a talker. He referred to the kindness of Mr. Childs during the convention of 1886, and said his example was worthy of emulation by other wealthy people of the country. Horticulture in its broad sense was in its infancy yet, and all could help a little to get its long clothing on. Flowers were not used in this country in anything like the quantity they should be. In Europe in many places 90 per cent of the windows of the houses had plants in them. Our business would rise to immense proportions if anything like this love for flowers could be generated in this country, he longed to see the day when this love for flowers would become universal. He alluded to the efforts of Mr. George Vanderbilt, of Asheville, N. C., who was doing so much and on such a grand scale for forestry, thousands of acres being planted with every tree and shrub indigenous to this and other countries.

As it was now late Mr. Alex Wallace was called on to lead with that great song "Auld Lang Syne," in which the company joined with a will, and thus closed a very happy occasion.

Owing to the weather business has been for the most part at a standstill, pleasant weather seems to be essential these days to keep things moving. There are a good many blooming plants coming in now, but cold disagreeable weather seems to put people out of the notion of them. A few bright days of sunshine would, we believe, start a lively business in window plants and gladden the hearts of the growers.

For all the demand has been light the supply has scarcely been equal to it, and some flowers have been quite scarce. Good Beauties and hybrids are not to be had; whether it is no sun or from some other cause these large roses are not up to the mark. Most of the Brunners lack substance, do not seem to open after being cut, and soon fall apart, 40 to 50 is the price just the same. $5 per dozen is high for Beauties, the majority bringing $16 to $25 per hundred, the choicest of the larger teas bring $8 to $10, while the majority are sold for from $6 to $8. Small roses bring 3 to 5. Carnations in large lots are sold at from $7.50 to 10 per thousand, the 100 price being 1 to 3, the majority bring 1.50. There are a great many new varieties about, but from some reason many of them go to sleep very quickly. The question now is not what color is it, or does it burst easily, or has it a good stem, but how does it keep? There are some beautiful varieties of carnations being put upon the market at the present time, which when fresh seem to be almost perfection in every particular, but the next day finds them ready for the barrel. It seems to us that here is a theme for the Carnation Society to take hold of. They should first insist on proving this qualification before passing on any other. Then when anyone wishes to lay in a stock of new varieties that have the sanction of the society he will know that they are all right in this essential and he can use his judgment as to the colors he should grow.

In speaking to a prominent bulb importer he said that he had been credibly informed that in the great majority of cases the foreign agents who will soon be seen about soliciting orders for bulbs for next year do not pay any passage money in coming across the water, as the steamship companies supply tickets free in order that goods may be sold, and then they get returns in the shape of freight on these shipments.

The meeting of the executive committee at the Colonnade was convened on Tuesday last and continued for two days. Some very interesting subjects for papers and essays were decided on and assigned to men whom it was thought would be most competent to handle them. There were also a number of questions selected for the box. The meeting was a very harmonious one and all seemed to think the proceedings of the next convention would be as interesting as any that had gone before. K.

The New Mushroom.

(*Agaricus subrufescens*, Peck.)

BY WILLIAM FALCONER.

[*Extract from essay read before the Mass. Hort. Society Feb. 17.*]

In the summer of 1892 I found quantities of a new-to-me, uncouth looking, wild mushroom growing on and about the leaf mould piles at Dosoris. The mushrooms were not scattered about, one here and one there, as we find the common one in the fields, but they came up in bunches of two, three or may be a dozen or two growing together, But the crop was not steady—there might be a great quantity this week, very few the next week and lots the week following, and so on. After a rain they would spring up like magic. There were about forty loads of rotting and decomposed leaves in that pile, and there was a gentle heat in it all summer long; while the whole mass two feet deep was permeated with the spawn most of the mushrooms came up in the oldest part of the pile. I was studying the new comer with much interest.

About that time my attention was called to the fact that Mr. Boulon, a neighboring florist, was picking a large quantity of mushrooms in his greenhouse

and frames and selling them in New York, getting big prices for them. I went over to see him and found the rumor true. But it wasn't the common mushroom at all that he was growing; it was the interesting stranger I was studying in our leaf mould pile at home. It appeared with him the previous year. He had old violet beds inside of his grape and tomato house, and they were full of mushrooms; old hotbeds in his nursery were run over with mushrooms, and he had mushrooms in the open ground among his asparagus between rows of pear trees. They were coming up wherever planted like a crop of weeds, and in the sunshine and shade with apparent indifference. He was picking an average of 35 pounds of them a day and getting 80 to 90 cents a pound for them in New York, mostly at hotels. He had a bonanza and he was increasing his mushroom growing facilities proportionate with his visions and circumstances. While the mushroom has behaved with varying grace to him since then, it seldom has cropped as well or been so productive as it was the first year.

After watching its habits and testing its quality I sent specimens to Prof. C. H. Peck, our state botanist at Albany, for identification. He found it to be a new species, and has named it *Agaricus subrufescens*. In his annual report of the state botanist of the state of New York, 1893, page 25, he gives a technical description of the species, and its origin.

The new mushroom has undoubtedly come to stay, especially as a summer cropper. But for some years to come its culture will be restricted to private families and commercial growers doing a private business. Before now the price of spawn—$5 for a 5-pound package—was prohibitory, but I believe spawn will be offered next spring by two or three parties, and cheap enough for everybody to try it.

The advantages of the new mushroom are its extraordinary productiveness when it does well and its adaptability for growing in summer. We cannot control the old sort out of doors with any certainty, and what we may grow of it in sheds, cellars or frames during the warm months are apt to be so infested with maggots as to be unfit for food. The new mushroom, on the other hand, can be grown outside all summer, and as it springs up so fast the larvæ of the little flies have hardly time to develop before the mushrooms are gathered for use. It is no more maggot proof, however, than is the old mushroom.

The disadvantages of the new mushroom are its toadstool appearance, uncertain behavior and the fact that its crop comes in spurts—lots today and maybe none tomorrow. But further personal acquaintance may overcome our prejudice against its looks and practical experience correct its behavior in cropping. Bulk for bulk, it is not as heavy as is the common mushroom; while its cap is deeper and broader, it is thinner and lighter. It does not burst its veil as soon as the other sort, but when it does it gets old quicker than the other; hence it is considered a poorer shipper. It is very good to eat. It has a pronounced mushroom flavor and in cooking exudes a fair quantity of juice and the flesh is tender. Several persons I know prefer it to the common mushroom, but for my own part I am inclined to favor my old and toothsome friend *Campestris*.

The best method of cultivation of the new mushroom is not yet properly understood. That it requires more heat than the old mushroom is generally conceded, also that it needs more water. By repeated practical experiment it has been proven that it grows as well in winter as in summer, providing the cultural conditions are favorable to its development. It will also grow in a cellar of Egyptian darkness as well as in the light; in fact darkness whitens the mushrooms and rids them of much of their outdoor coarseness. The lavish success that we have had with it at one time and perfect failure at another, under apparently the same conditions, convinces me that there are vital points in its cultivation that we do not yet understand. Sometimes we may plant a bed with the spawn and in four or five weeks mushrooms begin to appear, and in two months from planting time we have an enormous crop. Then again we may plant another bed in the same way and the spawn runs in it as prettily and thoroughly as in the other, completely permeating the whole mass of manure, and it won't bear a mushroom, and we don't know why. What shall we do with such a bed? Take it out to a warm, dry airy shed or loft and spread it out to dry, it will make first rate spawn, and the probabilities are that the next bed you make up and plant with this spawn will produce a heavy crop of mushrooms. Under date of January 31 last Mr. Boulon wrote me: "Under my control the new mushroom has grown any time in the year, but I find that it is more productive in summer than in winter. In winter after one picking we have to wait ten to fifteen days for another picking. In summer the crop is more regular. It is a good acquisition for summer use. The *Agaricus campestris* cannot be grown well in summer on account of the maggot, but *A. subrufescens* grows so quickly that the maggots have not time to develop in it. The cultivation is very easy and needs very little care. If one doesn't want to make a special bed for it he can plant the spawn between early cucumbers or melons or other early crops under glass."

Writing to me last September, Mr. W. H. Daniels, a florist and mushroom grower of Mamaroneck, N. Y., told me that he had made up two beds, each 60 feet long by 2½ feet wide, and planted them with the new mushroom. The manure was just right. About two weeks from time of planting the spawn had run through the beds, appearing like a thick film at every crack between the bottom boards, then he moulded them over with loam and otherwise treated them like the common mushroom. In due time they came into bearing, the young mushrooms appearing all over the beds about one-fourth grown, and there they stood like that for some days. There was something lacking. Then he thought of water, and he gave the bed a good soaking; the result was that the mushrooms swelled up and he had an immense crop. He made up succession beds, and February 2 he wrote again: "I have not gathered a mushroom yet this winter of the new variety. I made up a bed in my violet house and spawned one-half of it with the common mushroom and the other half with the new mushroom, and I am now gathering plenty of the common variety, but not one of the new variety, although the bed is a solid mass of spawn. I had an idea when I spawned the bed that the house would not be warm enough for the new mushroom, but I concluded to try it.

"I sold some of the spawn to a private gardener near me and advised him to put it in a warm house, which he did. The result with him has been a grand crop. I saw his bed about two weeks ago and it was a picture then. He told me that he had been picking from it for over eight weeks and was delighted with it. After the success I had with it last summer I shall certainly grow it again next summer. I do not think it is quite as good for shipping as *A. campestris*, but for home trade and gathered when fresh open my customers tell me that it is superior in quality to the old mushroom."

I wrote Mr. Daniels asking him for particulars about how his neighbor grew the mushrooms, and under date of February 8 he kindly replied as follows:

"Today I paid a visit to the gardener I told you about to obtain from him the secret of his success. He laughed at the word 'secret,' and said he had no secret about it; the only thing was the hint I gave him about planting it in his warmest house. He made up his bed about a foot deep under the hot water pipes, but concluded to box it in, as he thought the heat from the pipes would dry out the bed too much, otherwise the bed was made up and spawned exactly as for campestris. 'A great cropper,' was his exclamation; he never was without mushrooms from that bed for eleven weeks. The manure in the bed was only 75° when he planted the spawn, but it kept at that heat a good while. He estimates that although it takes a greater bulk of the new mushroom to the pound than it does of the old one, he gets more than three pounds of the new mushroom to one of the old sort from the same space of bed. And he declares while he can get spawn of *A. subrufescens* he will never go back to *A. campestris*.

"One thing he likes about the new variety is that if the bed is at all dry on the top a light watering with a rose pot does not injure the young mushrooms, but benefits them, whereas with the old one it is generally injurious to the young pin heads."

In the fall of 1892 I gave spawn to Mr. Griffin of Westbury, who cultivates mushrooms extensively for market in capacious cellars under the barns and heated with hot water. In the winter of '92-'93 he planted some beds with this spawn, but didn't get any mushrooms from them. The beds, however, were a complete mass of spawn, so he took them out and dried the spawn for future use. Last fall he again made up and planted some beds with this spawn, and he has had immense success, the mushrooms coming up in great clumps or basketfuls. He wrote to me about them and I sent Mr. Lendel Hallock of Queens to see if he could get me a photograph of them, but on account of the narrowness of the pathways in the cellar and other complications he could not get a photograph by flashlight or otherwise. Mr. Griffin and he, however, took a clump growing in a 2x1 foot space, slipped it into a flat and carried it out of doors to have its picture taken. It contained ninety-one mushrooms, large and small, and weighed six and one-half pounds. The mushrooms were two days too old and the caps had become widespread and darkened with spores; this was because he had kept them without picking for me to see.

Under date of January 30 Mr. Griffin wrote me: "I would very much like you to see the new mushrooms; there is no doubt about it being a fine cropper and easy to grow, more so than the other variety, under just the same treatment. I have a lot here that we are eating every day, for I am sorry to say that it will not



ADIANTUM FARLEYENSE.

take in the market; in fact before I knew it it had spoiled several shipments for me, as I packed them with the others, so we have to eat them ourselves."

Mr. Griffin's bed that is now in bearing is built on the ground and right under the hot water pipes. After the beds were spawned the atmospheric temperature was kept up to nearly 70°, but as soon as young mushrooms began to appear it was lowered to 60°. All of the beds till they come into bearing are kept covered with a thick layer of rank straw shaken out of the manure. When bearing begins this covering is removed except a light scattering which neither prevents the mushrooms from coming up nor obstructs one in gathering them, and it keeps the surface of the ground quite moist.

"Spoiling his shipments" may need explanation. He ships altogether to commission men. They don't want and will not handle any mushroom except the old one, for their customers won't take any other, so when Mr. G.'s mixed lots reached them they picked out and threw away all of the new mushrooms, retaining and paying for the old variety only. The new mushroom with its whitish gills, pale lemon tinted neck and thick furry veil has a good deal of a toadstool look about it, and especially since the "mushroom" poisoning scare of last summer the people look with distrust upon everything in this line except the genuine *campestris*.

Adiantum Farleyense.

The accompanying engraving is from a photograph of a plant grown by Mr. James G. Kyle, Newport, R. I. It is in a 10-inch pot, is 14 months old and is four inches across. In response to a request for a description of his cultural methods in growing this grand adiantum Mr. Kyle writes as follows:

"First of all, in my estimation, I would give first place to Adiantum Farleyense. I consider it the queen of the maidenhair ferns; it does not require any more heat than crotons, dracænas or any stove plant, succeeding with a temperature of 60° to 65° in winter. Farleyense is a strong grower, and the cultivation is very simple. My experience in propagating this variety is, as we all know, only by division of the crown. I never propagate from a plant less than a 4-inch pot and upwards; anything below this I consider too weak to expect strong stock from. To begin with I take a plant, cut all the fronds down to the crown, take a sharp pointed knife and divide the crown into the smallest pieces, just one eye on each piece. The eyes around the outside of the crown are preferred, as there is a chance of them having a little piece of root with them, which is a great advantage in starting them up again. The reason I take them so small is I can get a better plant and strong fronds after once they start up, whereas by dividing the crowns into larger pieces you will get nothing but a lot of short, unsightly fronds not worthy of the name of Farleyense.

"When I get all the stock I want I take a piece of good rotten sod and an equal part of leaf mould, mix well together and pot the eyes into thumb pots, putting them in a small frame on the bench in the warmest end of the house, with a bottom heat of 85° to 90°. In making this frame make a few holes in the bottom of your bench underneath to let the heat come through; then put about six inches of sphagnum moss inside the frame and plunge the pots right into the moss. Give a thorough watering, put a sash over the frame, but do not at any time keep it close. Raise up your sash about 18 inches at one end and keep it there all the time. By keeping your sash close the young fronds will damp off as soon as they come up. If you find that the pots dry out too soon take them out and put more moss into your frame, as there is no use giving so much water when there are no roots.

"In about seven or eight weeks they will be ready for shifting into 4-inch pots; for this shift and all others I use good old sod, shaking out the fine stuff and adding rotten cow manure and leaf mould in equal proportions. Mix thoroughly and don't pot very firm. Put them back in the frame for a couple of weeks, then set out on the open bench. Be sure there are plenty of crocks in the bottom of your pots; good drainage is very needful, as they require lots of water. My objection to using peat and charcoal is that they make the foliage too light in color.

"My benches are all iron and slate, so I cover them with half an inch of moss, giving plenty of moisture. The night temperature is 65° and the house has a slight shade in winter and a heavier one in summer."

Buffalo.

Our city, with a large part of the country, has had a good old fashioned blizzard accompanied by a large quantity of the "beautiful." Buffalo people, or a large part of them, are always praying for snow in its season, but in reality we are getting too big a city for snow and sleighs, and a great fall of snow is now a beautiful nuisance. Lent did not come in and leave behind any impressions of a very gay season. Business has been steady and the funerals of several prominent citizens made many of our retailers quite busy, but there was since New Years a great dearth of social events, which made quite a difference to the bulk of business done.

Carnations are now plentiful of all qualities and colors. Violets are also very plentiful and much reduced in price, although they all went off on Valentine's day with many other flowers. It was a good day all around. It is strange that good Mermets should be so scarce for the past month as they have been. It cannot be laid at the door of "old Sol," for we have had more bright days this winter than for many seasons past. Store windows are very gay just now with daffies and bright colored tulips and they sell very fairly.

Mr. George Pickleman who has leased the large establishment of Mr. Aldrich on West Seneca, just outside the city line, is preparing plans to remodel the whole structure. George says they shall be iron if it takes gold to pay for them.

Our enterprising florist Joseph H. Rebstock has just secured a lease of a fine store on the west side of Main street near Chippewa, and almost opposite his present stand, with a new front and great alterations in the interior, and a conservatory attachment in the rear. It will when opened for business be one of the largest and most finely fitted stores in the country. The ice box will be modelled after one that is well known in Washington, D. C., and will be some 40 feet long, 8 feet high and 3 feet deep. Joe says he needs that height, so he won't have to cut off the stems of his Beauties.

Mr. W. J. Palmer, in company with the writer, visited several of the greenhouses in Corfu last week. He took a good look at the carnations houses of W. Scott. One is *short* span to the south, the other an *equal* span and although the new fashioned house has the advantage of being on the south side of the equal span, yet it did not take the veteran Palmer but

an instant to see that the advantages of light were overwhelmingly on the side of the equal span, and as the owner is most emphatically of that opinion, there was no chance for a row. Webb Bro. are looking well. A large bench of those two fine carnations, Daybreak and Nellie Lewis were in grand order. A good source of revenue to them must be two long houses of violets, looking the picture of health, and from which they are picking thousands of perfect flowers. W. S.

New York.

General dullness and inactivity extends all through the various branches of trade. This surprises nobody, it would have been surprising had it been otherwise. Dealers have settled down to endure as best they can the inevitable, and but little complaint is heard, although there is plenty reason for it. Very cold and stormy weather has prevailed throughout the week, so the cut of flowers has been greatly curtailed, and the overstock which would otherwise have resulted from the lack of demand has not yet begun to make itself felt. In roses the quality of the stock coming in varies greatly. Some growers are cutting the finest roses they ever produced; this is especially true of some of the Watteville, Mermet and Bridesmaid growers. Others are having unusually poor results this year. In American Beauty there is a larger proportion than usual of useless blooms. The new rose, Mrs. W. C. Whitney, grown by J. N. May is coming in beautiful shape and shows every indication of becoming a popular market variety.

Carnation growers still keep up a keen rivalry and the near approach of the annual meeting of the Carnation Society helps to maintain the interest. On every side one hears discussions without limit about rooted cuttings, rust, stiff stems, big prices, pollen parents, etc. and the craze will be on until the Carnation Society meeting is past and the rooted cutting season is over. From present indications there will be quite a number of the New York fraternity at the Indianapolis meeting.

Bulbous stock shows no signs of improvement. Double daffodils are the only flowers in the bulb section that maintain anything like their old time hold on the market. Lily of the valley has never sold so low as it does this season. Harrisii lilies are also moving very poorly.

Cattleya blooms have been in excess of the demand this season, and for the first time since they became a staple in the market the price of these flowers has taken a serious drop, many lots not realizing more than twenty to twenty-five dollars per hundred.

It is reported that Robert Young will soon retire from the auction business on account of ill health.

After the retirement of Mr. Robt. B. Young his auction business will be continued by Aug. Rolker & Sons.

Mr. E. V Hallock sailed for Europe on the Majestic Wednesday.

Chicago.

Business holds up pretty well; in fact it is generally said to be unusually good for the season, and the shipping trade is exceptionally good. There is not an overstock of material, except in the line of bulbs. Good roses are rather scarce, particularly Beauties. Hybrids are not in the market yet; a few indifferent Neyrons and other sorts have been sent in from pots, but none from solid beds. Beauties still go up to $5 a dozen for the best. Meteors are from $6 to $8 per 100; La France, Bride and Albany $5. Some very richly colored Albanys with extra long stems are grown by Bassett & Washburn. All good roses are in excellent demand, and so are good carnations, ordinary varieties selling for $1.25 to $1.50; fancies $2 to $2.50. Fine Scotts are coming from Hancock & Son, Grand Haven, Mich., and they are greatly admired, selling on sight.

Bulbs are extremely slow, even valley taking a drop, a good quality selling for $2. Romans are a little firmer than they were, and Dutch hyacinths are worth $5 to $8, some of them being extra fine. Daffodils go very slowly, selling for $3 to $4, and tulips are equally slow, some extra fine Chrysolora being worth $5, but the average is much below. Callas don't go at all, and Harrisii is very slow at $4 to $8.

Among miscellaneous flowers are some extra fine forget-me-not, which is worth $2; mignonette at $1.50 to $3; marguerites at $1. Violets are in great demand at $1.50. Smilax is still a drug.

Mr. O. P. Bassett will return from California this week, after quite a lengthy absence.

Mr. H.W. Buckbee, of Rockford, was in town this week.

A number of the local brethren were at Indianapolis this week, attending the sessions of the Carnation Society.

O. J. Friedman has rented a new store at 145 State street, which place will be fitted up in an elegant manner. The firm will take possession of their new quarters the first week in March, but for the present at least their present place will also be kept running. Landscape gardening will be a new departure. Mr. John Thorpe, who has been connected with Mr. Friedman for some time, will be in charge of this branch.

Toronto.

A new and interesting plant is blooming at the greenhouses at Reservoir Park just now—Richardia Eltoniana (I believe that is right), the yellow calla lily sent out by Messrs. Hugh Low & Co. last year at $25 each. I regret I have been unable to get out to see for myself what it is like, but I hear that the bloom is similar to and as large as the common white calla with the exception of the color, which is a bright allamanda yellow, the leaves are spotted like the Richardia maculata, and the plant is a good strong grower. Not having seen it I can't say whether it is likely to be useful to florists, but from the description given I should say that it would. There are not many on the continent, and peradventure this is the first to bloom, if not it would be interesting to hear from others who have flowered it.

This city has an economical fit on just now, a mean parsimonious fit one might call it. The estimate for parks and gardens came before the committee the other day and was cut down and slashed until below the minimum for keeping things in decent order. Supt. John Chambers will no doubt do the best that can be done for the money, but his hands will be necessarily tied. Five thousand dollars was allowed to improve and add to the conservatory at the Horticultural Gardens in order to receive the collection of plants donated by Sir D. L. Macpherson last year, but every other improvement asked for by Mr. Chambers was relentlessly struck out. What a pity it is that men who really understand the subject of parks and gardens are so rarely seen in city councils, those who do have the authority generally think they know more about it than their superintendents, and the result is a kind of "penny wise and pound foolish" policy. E.

Boston.

Business in the city remains very fair for Lent, and while the wintry weather which we have been experiencing continues there will be no difficulty in finding sale for most of the stock coming in. Roses are particularly in short supply at present. There is a ready market for all that are of sufficiently good quality. Callas and Harrisii lilies are about the only flowers that are badly overstocked. The commission men and the growers who frequent the flower market all speak favorably of this week's trade.

The retail men in the city are all moderately busy. Outside, especially in the manufacturing towns, there is much complaint from the local florists, for the stoppage of many of the mills and factories directly affects their trade, which comes principally from the employees of these establishments.

Some pretty blooms of the Christmas rose were shown at Horticultural Hall on Saturday, February 17, by the Bussey Institution. Everybody admires these flowers and it is singular that so few of them are grown.

W. A. Manda, of Orange, C. B. Weathered and J. S. Taplin, of New York and A. T. Boddington, of Short Hills are in town this week.

McGee & Tiernan is the name of a new retail flower firm on Broadway, Chelsea.

Pittsfield, Mass.

A well attended meeting of the Berkshire County Gardeners' and Florists' Club took place February 14. The meetings have hitherto been of a very cold and uninteresting nature, and after some discussion an essay committee of five was appointed to provide an essay for each meeting. It is now hoped a new impulse will be generated and kept on, and that the meetings in future will prove of material interest and benefit to the members.

The eel worm is causing great uneasiness in the fraternity in this section and much damage is done to roses in the best greenhouses in the county. As a consequence rose buds are not so plentiful as desired. Mr. A. P. Meredith, who has had his eye on the worm through the aid of a powerful glass, is experimenting as to the origination, cause and best preventive against it, with his well known energy in everything he undertakes, and it is hoped he will succeed in his task. Other prominent members are also doing their duty, and at our next meeting some practical talks are expected on the evil eel worm. In the meantime it would be wise to watch the roses with a scrutinizing eye. W. M. EDWARDS, Sec'y.

LENOX, MASS.—The gardeners and florists of Lenox and the vicinity have during the past month organized a society that is to be known as the Lenox Horticultural Society, of which E. J. Norman is president, J. F. Huss, vice-president, A. Huss, treasurer, and A. H. Wingett, secretary. It has started in a most satisfactory manner, and it is hoped that it will prove very advantageous to all its members by making them more acquainted with each other and their different methods of obtaining success.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By practical German gardener; middle aged, single man. Best references. Speaks a little English. J K, care Am. Florist.

SITUATION WANTED—By a lady, where she can thoroughly learn decorative and designing work; salary no object, but would expect board and lodging. C. E., Henly, Hays county, Texas.

SITUATION WANTED—By florist and gardener; well experienced in all branches; age 25. Best of references. Private or commercial place. Address S 100, care American Florist, Chicago.

SITUATION WANTED—By a German as florist; a place with private family preferred. Age 23. Can give refereences if wanted. Address ADOLF STADLER, gen. del. Minneapolis, Minn.

SITUATION WANTED—By young man of 20 to learn the florist trade. One year's experience on private place. Penna. preferred. Address S C G, 231 N. Penn St., Allentown, Lehigh Co., Pa.

SITUATION WANTED—By a single young man, 23 years of age; speaks German and Swedish. Has experience in nursery work. Best of references. Address A P, 6922 Ave. C, Parkside, Chicago.

SITUATION WANTED—By first-class designer a situation where artistic work is appreciated Fast worker; steady and sober. Moderate salary but steady place expected. Address Y Z, care Am Florist.

SITUATION WANTED—As manager or foreman on private or commercial place, by young married Scotchman; 10 years' experience; 2 years in this country. Best references. West preferred. Address G. FYFE, Madison, N. J.

SITUATION WANTED—By a first-class florist. German, single, age 27. Life experience in the business, thoroughly in all branches, honest and sober and good worker. First-class references. H R, care American Florist.

SITUATION WANTED—By Swede, to work in greenhouses; 2 years in this country; can speak and write fairly well. Good references from first-class places in Sweden and this country. AXLE CARLSON, Millbrook, N. Y.

SITUATION WANTED—As headgardener in private or commercial place; a thoroughly experienced florist, fruit and vegetable grower; also landscaper. Age 30, married, no children. Best of references. Address PARKSIDE, care American Florist.

SITUATION WANTED—As assistant or foreman, by a young man, sober, intelligent and of executive ability; many years experience in growing cut flowers and plants in U. S. and Europe; good recommendations; northern part of Illinois preferred; state wages. Address PRACTICAL, care American Florist.

SITUATION WANTED—By gardener and florist; married, German, two children, on private place, east; 18 years' practical experience in greenhouses, graperies, roses and vegetables; accustomed to have full charge of large places Best references. Address R L, box 885, New London, Conn.

SITUATION WANTED—At once, by florist; German descent; 9 years' experience in roses, carnations and general stock; 3 years spent in cemetery greenhouses. Good references. Would also like to hear of good place to rent or take charge. Address with particulars, F. N. QUICKERT, 617 Reservoir Ave., Milwaukee, Wis.

SITUATION WANTED—By an energetic first-class man, as head gardener; have had 20 years experience in the best gardens in England among orchids, stove plants, grapes, etc., renovating old and laying out of new gardens, last seven years as head; first-class references, age 34. Address, stating terms to MR. YOUNG, 250 Smith St., Hartford, Conn.

SITUATION WANTED—The advertiser is 30 years old, married, no children, 14 years' experience, honest, and of good character. Recommendations from some of the leading places of Sweden, including the Royal Gardens; also 5 years here; 3 years in present place as headgardener. Only a good place and treatment wanted. Address FLORIST, care American Florist, Chicago.

SITUATION WANTED By the 1st of April, as foreman or manager, by a German, single, has 16 years practical experience in greenhouses, vegetables, fruits' fully understands the forcing of flowers, vegetables and small fruits; understands the management and laying out of grounds, lawns, fancy designs and shrubs; fully understanos the management of stock, poultry, and that of help; has served apprenticeship in Germany, and has 13 years' experience in America. At present taking a short course in agriculture at the Cornell University. First-class reference. Country preferred. Address EUGENE BAYER, 14 Linn St., Ithaca, N. Y.

WANTED—Plant and seed catalogues. Also 5,000 Sempervivums and Echeverias. R. G. RAU, care Bacon House, St. Joseph, Mo.

WANTED Partner, with some money, in rose growing in all its branches. Address GEO. H. LAMBERSON, 174 Gibbs St., Portland, Ore.

WANTED—Man to grow roses and carnations; also one to grow chrysanthemums and general stock. Address COLE BROS., box 577, Peoria, Ill.

WANTED—A salesman in store who has also had experience in growing stuff; good reference required Apply BOOL FLORAL CO., Ithaca, N. Y.

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HARD-TIME PRICES.

Send for Special Spring Import List of

DWARF-BUDDED AND TREE ROSES, CLEMATIS, ETC.

GROWN BY THE

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THE PRIZE WINNERS AT WORLD'S FAIR, CHICAGO. SPECIAL PRICES.

Address **C. H. JOOSTEN, Agent, 3 Coenties Slip, NEW YORK.**

READ WHAT FOSTITE IS DOING FOR THE FLORIST against Mildew on Roses, and Carnation Rust.

"We are highly pleased with your Fostite and Bellows. *No investment ever paid me better. Not a speck or spot of Mildew on the place.*"

Signed, ALBERT KNOPF, President Franklin Park Floral Co., Columbus, O.

Mention American Florist.

WANTED—Greenhouse assistant; young man with some experience and intelligence. State references and wages with board per month. Address Box 353, Middletown, N. Y.

WANTED—By March 1, in private greenhouses; experienced assistant gardener; German; salary $40 a month, room without board Address E H, care American Florist.

WANTED—Gardener, single, who understands raising vegetables and fruits for market. Give references and state wages with board. Address P. O. Box 186, Mt. Pleasant, Iowa.

WANTED—A good worker and experienced grower of roses, carnations, chrysanthemums, and general stock of plants. Good State wages. Address ALFRED PHAUD, Crown Hill Cem., Indianapolis, Ind.

FOR SALE—One Kroeschell hot water boiler 4x12; 4 years in use Also about 4000 feet 4-inch pipe. ART FLORAL CO., 3301 Cottage Grove Ave., Chicago.

FOR SALE—Four greenhouses, well stocked, with very valuable piece of ground, reason for selling old age. Address WM. SPRINGBORN, Dubuque, Ia.

FOR RENT—At Riverside, Ill., greenhouses, boiler, pipes; all in running order. Rent cheap. Call or address PETER READEY, 1011 Ogden Ave., Chicago.

FOR SALE—Best opportunity to make money ever offered. A first-class florist establishment, and the only one in one of the best college cities, with over 6,000 wealthy people. Splendid cut flower trade all the year. Everything new, with big stock of plants for spring sale. Write for particulars at once. Don't miss this chance. G J, care American Florist.

FOR SALE—Four greenhouses, of about 4000 square ft. of glass, heated by hot water; about 150 sashes, about 1000 square feet of glass loose in boxes; 800 feet of 4-inch pipes, valves, etc. About 25,000 tuberose bulbs (Pearl). The greenhouses are filled with all kinds of the best selling pot plants to bed out in the spring. Stock in first-class order. Winton Place is a nice suburban residence of Cincinnati. The business is at the Spring Grove Cemetery—it's the largest and prettiest in the state. I am at the C. H. & D. and near the C. W. & B. R. R. station; also street car accommodation. No other florist around. Owner of place will give buyer a lease. Rent reasonable. Reason of selling is because I wish to build upon my own ground (a few miles west of here) Buyer can have possession of place at once. Will sell reasonable, for cash. Also large stock of violets. For particulars address H. SCHLACHTER, Winton Place, Ohio.

FOR SALE.

1, Six Section Carmody's Champion boiler; 21 Carmody's sash lifters with two wheels and attachments The above have been in use one year and are in perfect order. 30 Hotbed Sash, Coleman's patent, 3x6, 3 runs; 15 never been used; 15 been used about two months. Well painted with two coats of white lead and oil; all Cypress. 225 feet 2 inch pipe. 500 feet 1½ inch pipe. Plenty Tees, Elbows, Unions, Reducers, etc 16 Ventilating sash all cypress. 700 or 800 feet of cypress greenhouse bars. 2000 feet of glass, 12x12 D thick, 12x18 sing S. In fact two greenhouses with all their equipment for sale at a bargain. Take note of this brother Florists in New Orleans, Birmingham, Vicksburg, Mobile and Atlanta. You will never see a better chance than this. All this equipment is new, not thrown out because it is too old and out of date I sell because I am tired of digging in the dirt, and sick of fighting so many pests. GEO. W. STABLE, Meridian, Miss.

READY FOR BUSINESS

Make known your wants and we will be pleased to quote prices.

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W. A. MANDA,

The Universal Horticultural Establishment,

SOUTH ORANGE, N. J.

THE WATER GARDEN.

Where? What? Why! at Clifton, New Jersey.

Yes! It's the best in the United States; nothing can equal it anywhere. **TRICKER, of Dongan Hills, N. Y.,** our leading man in **Aquatics** has made his headquarters there. That so? Yes, and he's prepared to do a big business in his line.

Write for Prices and Special Quotations.

ADDRESS **WM. TRICKER,**

▲ ▲ ▲ CLIFTON, NEW JERSEY.

SPECIAL OFFER FOR 30 DAYS

To Introduce Our Superb Progressive XX and XXX Mammoth Verbena Seed.

There'll be some that will span the silver half and make progressive Florists laugh. Once plant, and you'll a customer be. That's what we are after, don't you see. Large trade packet **XX 20 cents; XXX 30 cents** for 30 days only. (To secure these rates, mention special offer; use both grades). In Gibson's sweet-scented Hybrids you will find all that can be desired in the **Pansy** ⅛ oz., $1; ¼ oz., $1.60; transplanted seedlings 75 per hundred. Our hand hybridized **Double Petunia** seed will produce the kind you will want to sell. Fine doubles and frilled singles. 500 seeds 75c, 1,000 seeds $1.25. The double white scabiosa snowball is the best thing out for summer and fall cutting ⅛ oz 25c., ¼ oz. 40c., ½ oz. 60c. Seeds all by mail postpaid. Descriptive wholesale price-list of **Novelties** and **Specialties** free to all. Address, cash with order please.

J. C. GIBSON, Woodbury, N. J.

CHOICE VINES,

For Immediate Shipment.

5,000 AMPELOPSIS VEITCHII, 1 year, pot grown, fine. $7 00 per 100

1,000 AKEBIA QUINATA, (a fine climber, bears a rich maroon flower) . . . $6 00 per 100

3,000 CLEMATIS PANICULATA, (creamy white flowers in clusters, very fragrant profuse bloomer), 1 year pot grown, fine, $10 per 100

5,000 HONEYSUCKLES, Golden, Hall's Japan and Fragrans, strong plants. . . $6 00 per 100

2,000 ENGLISH IVY, 1 year, very fine, $8.00 per 100

THE WM H. MOON CO.,

MORRISVILLE, PA.

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Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

A SPIKE OF CANNA bloom, a seedling of the Crozy type, was recently sent us by W. R. Adams, of the Omaha City Parks, who informs us that it is a most prolific bloomer, producing its flowers in quantity all summer. The color is light red, suffused with yellow, and though the flowers are medium in size the size of spike should make it very showy.

Orchid growers have another trouble to contend with in the shape of a beetle (Xyleborus morigerus) which infests dendrobiums and does much injury by boring into the shoots. It is said not to be a British species, but is supposed to have been imported with the plants. A correspondent of *The Garden* recommends immediate cutting off and burning of the infested shoots as the only course to pursue.

Mr. Walter Henry Williams of the firm of Keynes, Williams & Co., Hon. Secretary of the Wilts Horticultural Society for the past twelve or thirteen years and member of the floral committee of the Royal Horticultural Society, died at Parkhurst, Salisbury, on January 14 of pneumonia at the age of 31. Mr. Williams was an enthusiastic dahlia grower, his specialty being the raising of new varieties of the single and cactus type.

PARK RIDGE, N. J.—James Duncan, of this place has sold his greenhouse establishment to John Bennett, late of Rye, N. Y. Mr. Bennett will add to the glass, and conduct a general retail business with the assistance of his two sons.

MARINETTE, WIS.—Fisher & Burtenshaw is the style of a new firm here, composed of D. J. Fisher and F. Burtenshaw, the latter formerly of Chicago.

WILKESBARRE, PA.—Ira G. Marvin has sold his Plymouth greenhouses, office and stock to Wm. H. Van Fleet.

ERIE, PA.—Mr. H. Tong mourns the death, from membranous croup, of his 5 year old son Hubert, on January 26.

NEW ORLEANS, LA.—Mr. R. N. Little has removed to corner of Cadiz and Perrier streets.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

CORBREY & McKELLAR,
Wholesale and Commission Florists,
Phone Main 4508. **45 Lake Street, CHICAGO.**
We are prepared to fill your orders with First-Class Flowers.
Give us a trial order.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

Must be Sold. . . .
5,000,000 HARDY CUT FERNS.
Price to suit the times.
SPHAGNUM MOSS in quantity, 50 cents per bbl.
H. E. HARTFORD, 18 Chapman Place, BOSTON.

GEORGE A. SUTHERLAND,
SUCCESSOR TO
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Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

Wild Smilax, Pines and Palmettos
FOR DECORATIONS
AT LOW FIGURES.
Low freight rates by steamer to New York, Boston, Philadelphia and Baltimore.
A. C. OELSCHIG,
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Orchid Cut Flowers.
CATTLEYAS, $50 per hundred.
PITCHER & MANDA,
UNITED STATES NURSERIES,
SHORT HILLS, N. J.

25,000
Lady Hume Campbell Violets,
$3.00 per 100; or $25.00 per 1000.
WM. MATHEWS,
West View Greenhouses, UTICA, N. Y.

ALTERNANTHERA.
Strong rooted cuttings, propagated last fall.
P. MAJOR, best red 50.00 per 1000
A. NANA, best yellow 50.00 per 1000
HEITE FLORAL CO., Kansas City, Mo.

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Cut Flowers AND Florists' Supplies
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A complete line of Wire Designs.

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WHOLESALE CUT FLOWERS,
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WIRE WORK A SPECIALTY.
General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

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WHOLESALE GROWERS OF
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Roses, Carnations and Violets Specialties.
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Tel. Main 4786. Consignments Solicited.

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WHOLESALE FLORISTS
JOBBERS IN FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
1 Music Hall Place, BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.

LET US book your order now for a copy of our new trade directory and reference book to be issued next month. Price $2.

Wholesale Markets.

Cut Flowers.

NEW YORK, Feb. 20.

Roses, Bon Silene, Gontier, Niphetos	1.00@ 3.00
" Perle	2.00@ 4.00
" Mermet, Bride	3.00@ 6.00
" Cusin, Watteville	3.00@ 6.00
" Hoste	3.00@ 6.00
" La France	6.00@12.00
" Meteor	4.00@10.00
" Bridesmaid	5.00@ 8.00
" Beauty	5.00@50.00
" Hybrids	15.00@35.00
Carnations	.75@ 3.00
Mignonette	2.00@ 8.00
Hyacinths, Narcissus	1.00@ 3.00
Valley, Tulips	1.00@ 3.00
Violets	.75@ 1.25
Harrisii	6.00@12.00
Smilax	10.00@15.00
Adiantum	1.00@ 1.50
Lilacs, per bunch	1.00@$1.50

BOSTON, Feb. 20.

Roses, Niphetos	3.00
" Gontier	4.00
" Perle, Sunset	5.00@ 6.00
" Bride, Mermet	6.00@16.00
" American Beauty	8.00@50.00
Carnations	1.00@ 2.00
" fancy	3.00@ 4.00
Lily of the valley	1.00@ 4.00
Roman Hyacinths, Freesia	1.00@ 1.50
Trumpet narcissus, Daffodils	2.00@ 4.00
Callas, Harrisii	6.00@10.00
Mignonette	2.00@ 8.00
Violets	65@ 1.00
Pansies, Myosotis	1.00
Tulips	2.00@ 4.00
Adiantum	1.00
Smilax	12.50
Asparagus	50.00

PHILADELPHIA, Feb. 20.

Roses, Perle, Gontier, Niphetos	3.00@ 4.00
" Cusin, Watteville, Hoste	4.00@ 5.00
" Bride, Mermet, La France	6.00@ 8.00
" Kaiserin, Bridesmaid, Testout	6.00@10.00
" Belle, Beauty	25.00@35.00
" Laings	20.00@25.00
" Brunner	40.00@50 00
Carnations, H. Keller	6.00
" Ophelia, Sweetbrier, Daybreak	2.00@ 3 00
" Edna Craig	2.00@ 3.00
Valley	3 00@ 4.00
Romans, Paper white	2.00@ 4.00
Daffodils	3.00@ 5.00
Smilax	12.00@15.00
Adiantum	1.00@ 1.50
Violets	1.00@ 1.50
Mignonette	1.50@ 2.00
Asparagus	50.00@75.00
Harrisii lilies	10 00@12.00
Callas	6.00@ 8.00
Freesia	1.00@ 1.50
Tulips	4.00@ 5.00
Cattleyas	40.00

CHICAGO, Feb. 21.

Roses, Perle, Niphetos, Gontier	3.00
" Bride, Mermet, La France	3 00@ 4 00
" Wootton, Meteor, Bridesmaid	4.00@ 8.00
" Beauty	10 00@35.00
" Mixed	3.00
Carnations, long	1.00@ 1.50
" fancy	2.00
" short	.75
Valley, Romans, narcissus	3.00@ 3.00
Tulips, Daffodils	3.00@ 4.00
Tulips, fancy	5.00
Dutch hyacinths	5.00@ 8.00
Violets	1.00@ 1.50
Callas, Harrisii	4.00@ 8.00
Mignonette	1.50@ 2 00
Smilax	8.00@15.00
Asparagus	50.00
Orchids	15.00@50.00

CINCINNATI, Feb. 19.

Roses, Beauty	35 00@75 00
" Mermet, Bride	5.00@ 6 00
" Perle	3.00@ 4 00
Narcissus Von Sion	4.00
" Trumpet Major, Paper white	3.00
Callas, Harrisii	8.00
Valley	3.00@ 4 00
Romans	2 00
Violets, pansies	1.00
Asparagus	50.00
Smilax	10.00@15.00
Adiantum	1.00

BUFFALO, Feb. 19.

Roses, Beauties	10.00@25.00
" Mermet, Bride, Bridesmaid	6.00@ 8.00
" Meteor	7.00@12.00
" Gontier, Perle, Niphetos, Hoste	5.00@ 6.00
" Cusin, Watteville	5.00@ 6.00
Carnations, long	1.50@ 2 00
" Daybreak	2.00
" short	1.00
Valley	3.00@ 4 00
Violets	1.00@ 1.50
Hyacinths, Narcissus	2.00@ 3.00
Tulips, daffodils	3.00@ 4 00
Callas	8.00
Harrisii	10.00
Mignonette	1.00@ 2.00
Pansies	1.00
Myosotis	1.00
Adiantum	1.25
Smilax	15.00
Asparagus	50.00

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.
Mention American Florist.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers
OUR SPECIALTIES:
AMERICAN BEAUTIES, METEORS. BRIDESMAIDS.

CUT FLOWERS.
ROSES, standard varieties and novelties
Carnations, all the new sorts in finest quality.
VIOLETS, MIGNONETTE AND VALLEY.
FIRST QUALITY STOCK. WHOLESALE ONLY.
THOS YOUNG, JR.,
20 WEST 24TH ST., NEW YORK

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer. 114 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

Am. Seed Trade Association.

At the twelfth annual meeting of the executive committee of The American Seed Trade Association held in New York, February 6, 1894, it was

Resolved: That it is the unanimous voice of the executive committee of the American Seed Trade Association, meeting in New York, February 6, 1894:—That it is the undoubted sense of said association to protest most earnestly against the passage of the so-called Wilson bill as it relates to garden seeds appearing on the free list. That as a body of seed growers and seed dealers throughout the United States,—while advocating the retention of the present advalorem duty of 20 per cent.—we would strongly recommend the adoption of a specific duty upon the different species.

We are pronounced in this view for the reason that an *advalorem* duty tends to encourage the importation of low grade seeds to the serious injury of the crops of American farmers and gardeners. It is a well known fact that, with but very few exceptions, seeds of all varieties of vegetables can be grown of better quality, and in every way better suited to the American climate, at home than abroad. So thoroughly is this fact appreciated that European growers are compelled to send annually for American grown stock seeds. It will be seen that our advocating a really protective duty on seeds is not only in the interests of the American seed grower alone but the planter of seeds as well—the trucker and farmer. Seeds are not as raw material, quality is insured only at the expense of diligent labor,—such intelligent labor cannot be secured by the underpaid farm peasants of Europe.

W. ATLEE BURPEE, President.
A. L. DON, Secretary.

MR. E. V. HALLOCK of Queens expects to sail for Paris soon.

MR. W. ATLEE BURPEE will soon make a trip to California.

THE CANNERS of the U. S. held their annual convention in Chicago the past week.

THE SEVERE STORM or some other cause has caused a serious falling off in the mail trade February 12-17.

MR J. A. FRASER, late with W. Elliott & Sons is reported to have taken a similar position with Wm. Hageman, Phila.

THERE SEEMS TO BE a disposition among growers on contract to make some concessions on orders for crop of 1894.

VISITED CHICAGO: Everett B Clark, Hiers A Sulzer & Bro., Albert Landreth, W. A. Longbrake, L. J Corsell and Col. King of Minneapolis; R. Engleman, Omaha; C. H. Allen, Floral Park.

ALBANY, N. Y.—The Morrison & Westfall Co. has been incorporated here to deal in field and garden seeds, agricultural implements, etc., with a capital of $100,000. Directors, Leonard Morrison, Frank D Halstead and Philo J. Westfall.



NEW CROP ONION SEED
$1.00 PER POUND—
Either RED WETHERSFIELD or YELLOW DANVERS.
$2.25 PER POUND for American Grown Prizetaker,
In lots of FIVE POUNDS of one kind or assorted as desired. With every $5.00 order goes FREE a copy of Greiner's Newest and Best Book, "ONIONS FOR PROFIT," telling all the Secrets of Success in Old and New ONION CULTURE.

If You Garden for Profit
you can save money and should buy at Wholesale Prices, as quoted in BURPEE'S BLUE LIST for 1894. It is mailed FREE to Market Gardeners everywhere, who, while entitled to *the lowest prices possible*, should always be sure to get Only the Best Seeds That Grow! BURPEE'S SEEDS ARE WARRANTED,—*few equal, none better*—and are annually sold direct to many more planters than are the seeds of any other growers.

W. Atlee Burpee & Co., Seed Growers, Philadelphia, Pa.

☞ If you have not already seen BURPEE'S FARM ANNUAL for 1894, write for it TO-DAY. A handsome book of 172 pages, it is pronounced by papers everywhere *The Leading American Seed Catalogue.* It tells all about the Choicest Vegetables and Most Beautiful Flowers for THE HOME GARDEN.

FIFTY THOUSAND
PEARL TUBEROSES
F. O. B. NEW YORK.
We offer selected bulbs of above, from four to six inches in circumference, for present shipment, at $9.00 per 1000. Orders accepted subject to being unsold.

SWEET PEAS, California grown.
We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.
(SHERWOOD HALL NURSERY CO.)
427-9 Sansome St., *San Francisco, Cal.*

Hulsebosch Brothers,
OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LILIUM SPECIOSUM ALBUM	$ 6 00	
" " ROSEUM	5.00	
" " RUBRUM	5.00	
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors	4.00	35.00
CONVALARIA MAJALIS, German pips	1.00	8.00
TUBEROSES, Pearl and Tall, A1 (big) bulbs	.90	7.50
LOW BUDDED ROSES, in sorts, Dutch Stock	9.00	
English Stock	11 00	

All other plants or shrubs can be ordered for March, '94 delivery.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.

. . DUTCH BULBS . .
PETER VAN VELSEN & SONS,
Houtvaart-Overveen near Haarlem, Holland.
Growers of Hyacinths, Tulips, Crocus, Narcissus, etc. Catalogue free on application. Special prices given for large quantities.
Established 1834.

GLADIOLUS BULBS
Seedlings of 1892, from choicest named varieties, Lemoine's and Gaudavensis, 1 to 1½-inch, warranted to bloom this season, $9.00 per 1000.
Named vars and Seedlings mixed, 1½ to 2½-in. $16.00 per 1000. At least one third of the above are whites and light. No cheap Brenchleyensis and common reds.
WM. FERGUSON, Groveland, Mass.

Summer Delivery
(JULY AND AUGUST.)
PALM SEEDS (from California and Australia).
TREE FERN STEMS.
FREESIAS. We will have a million of FREESIAS running from 7-16 to ¾ of an inch.
CALLAS. Dry roots in all sizes.
LIL. LONGIFLORUM.
CALIFORNIA SMALL BULBS.
Brodiæas, Calochortus, Fritillarias.
Advance Price List ready. Send for it. We want your orders now. Address
H. H. BERGER & CO.,
SAN FRANCISCO, CAL.

Special Low Offer.
WE BEG TO OFFER:
LILIUM LANCIFOLIUM (SPECIOSUM) RUBRUM at $36 per 1,000. Strong Bulbs, size 8-10 inches circumference.
CLEMATIS assorted. Leading kinds. Strong plants. 5 to 6 feet high; 3 to 6 shoots at $200 per 1,000. Ditto. Second size. 4 to 6 feet. 1 to 3 shoots at $160 per 1,000.
M. KOSTER & SONS, Nurserymen,
BOSKOOP, HOLLAND.

Z. De Forest Ely & Co.
WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN
FLORISTS' SUPPLIES.
1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.



TRY DREER'S
GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

SEEDS!
PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

YOUNG ROSE PLANTS

We offer the following very choice plants in 2-inch pots:

	Per 100		Per 100
Am. Beauties,	$7 00	Mermets,	$3 50
Bridesmaids,	5 00	Perles,	3 50
Kaiserin,	4 00	Woottons,	3 50
La France,	3 50	Mme. Hoste,	3 50
D'ch. of Albany,	3 50	Bennetts,	3 50
Brides,	3 50		

The above stock is very strong and healthy, and propagated from selected wood. We raised the above to grow for ourselves, and it will give better satisfaction than stock which has been raised simply to sell.

BASSETT & WASHBURN,
Hinsdale, Ill.

YOUNG ROSE PLANTS

We offer the following very choice Plants in 2 1-2 in. pots.

	Per 100.		Per 100.
Am. Beauties,	$6 00	Mermets, -	$3 50
La France, -	3 50	Perles, - -	3 50
D'ch of Albany,	3 50	Woottons, -	3 50
Brides, - -	3 50	Papa Gontiers,	3 50
		Meteors, - -	3 50

The above stock is very strong and healthy, and propagated from selected wood. We raised the above to grow for ourselves, and it will give better satisfaction than stock which has been raised simply to sell.

CARNATIONS, ROOTED CUTTINGS.

Daybreak	per 1000	$15.00
Tidal Wave	"	10.00
Silver Spray	"	10.00

REINBERG BROS.,
51 Wabash Avenue, **CHICAGO.**

Roses. Roses. Roses.

We have a very fine stock of the following plants, from 2-inch pots, which we are pleased to offer.

	Per 100		Per 100
AM. BEAUTY, -	$7.00	KAISERIN, - -	$4.00
BRIDESMAID, -	5.00	PERLES, - -	3.50
LA FRANCE, - -	3.50	WOOTTONS, - -	3.50
ALBANY, - -	3.50	MME. HOSTE, -	3.50
BRIDES, - -	3.50	BENNETTS, - -	3.50
MERMETS, - -	3.50		

CHRYSANTHEMUM PLANTS, (Send for our list) - $3.00 per 100

This stock is all grown from the best and strongest wood, and we are certain that it will give satisfaction.

J. B. DEAMUD & CO.,
45 Lake St., **CHICAGO.**

Forcing Roses.

A stock of the best varieties always on hand.

M. A. HUNT, Terre Haute, Ind.

ROOTED CUTTINGS.

Brides, Cusins,
Bridesmaids, Niphetos,
Meteors, Perles,
Hostes, Beauties,
Mermets, Testouts, La France.

☞ Address for quotations

T. W. STEMMLER,
Villa Lorraine Roseries, MADISON, N. J.



New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advers., floral designs, etc., at from 30c and upwards. Price of Catalogue 25c. (deducted from $1 order).

A. BLANC, Engraver for Florists,
PHILADELPHIA, PA.

Mention American Florist.

BULBS

Send List of What You Need.

WE CAN SAVE YOU MONEY.

TRADE MARK

A. BLANC & CO., Philadelphia, Pa.

NEW PLANTS

OF STERLING MERIT.

ROSE MRS. W. C. WHITNEY.

CHRYSANTHEMUMS:

Yellow Queen, Achilles, Malmaison, Mayflower, Minerva and Titian,

and all other really good things in this line.

JOHN N. MAY,
SUMMIT, NEW JERSEY.

Mention American Florist.

100,000 Roses Ready Now

All sizes 2, 3 and 4 inch pots, best varieties. Also all kinds of Bedding Plants, Palms, &c. Will be pleased to receive a List of Your Wants, and quote Lowest Figures.

Wholesale Catalogue Mailed to Florists.

We have an immense stock in best of condition, and guarantee satisfaction and low prices. Address

NANZ & NEUNER,
LOUISVILLE, KY.

Bridesmaid.

Young stock, fine and healthy, now ready, from healthy, cool grown stock, at $6 per 100; $50 per 1000.

W. A. KENNEDY, Lake Forest, Ill.

FORCING ROSES.

VERY STRONG STOCK, well rooted, and especially adapted for pots, very best varieties of forcing roses, as: Capt. Christy, La France, Fisher Holmes, Van Houtte, Marie Baumann, Alfred Colomb, Ulrich Brunner fils, Gruee Darling, Gloire de Dijon, Magna Charta, Gen. Jacqueminot, Baronne de Rothschild, Merveille de Lyon, etc., $40 per 1000 for cash, postpaid Hamburg excl. emballag. **L. TIMM & CO.,**
Elmshorn, Holstein, Germany.

GREENHOUSE HEATING.

BY A. B. FOWLER.

Explains fully all the best systems of heating greenhouses by both hot water and low-pressure steam. Tells you the points to consider in selecting an apparatus. How to adjust same to various locations; gives the results of the latest scientific experiments. Shows how to compute the number of feet of pipe required for a given space; draft and other important matters.

It is highly commended by Mr. John Thorpe and others. Postpaid, 75c.

Sent on receipt of price. Address,
AMERICAN FLORIST,
CHICAGO.

St. Louis.

A week of continuous cold weather has kept the market in a healthy state, and as a result stock has been selling well right along. Shipping orders have been more numerous also, and have helped to keep things going. Lilac has made its appearance in fair quantity, and seems to take fairly well; quite a number of tulips also have been on the market, but are not selling any too freely.

The last meeting of the bowling teams was well attended and was quite exciting; the high record of 238 for this series was twice broken, Mr. Beyer rolling 248, and afterwards Jules Benecke made 257. From present indications it appears as though Mr. Benecke will capture both the medal for highest individual score, and also for highest average. Dr. Helwig, captain of team No. 2, electrified the boys by making a score of 87 for a full game, and it will be some time before he hears the last of the matter. Team No. 2 in its third game rolled a total of 1274 pins which is the record to date. R. F. T.

Baltimore.

A week of unexampled extremes in temperature has just ended, beginning with a Sunday mild and balmy as a day in later May. By the middle of the week we had January in appearance and temperature, hard frozen snow and ten degrees Fahrenheit, finishing with another Sunday like the last.

Trade in flowers and house plants continues fair. To be sure, the heaviest demand in flowers is for funeral work, as people die right along in Lent as well as at other seasons, but a very nice little percentage comes from our Jewish citizens, who marry and are given in marriage regardless of Christian fast days, and who, with all their supposed closeness, are very fond of flowers.

Mr. M. A. Hantske's new store, No. 1414 North Charles, near Union Depot, is a great improvement on the old one.

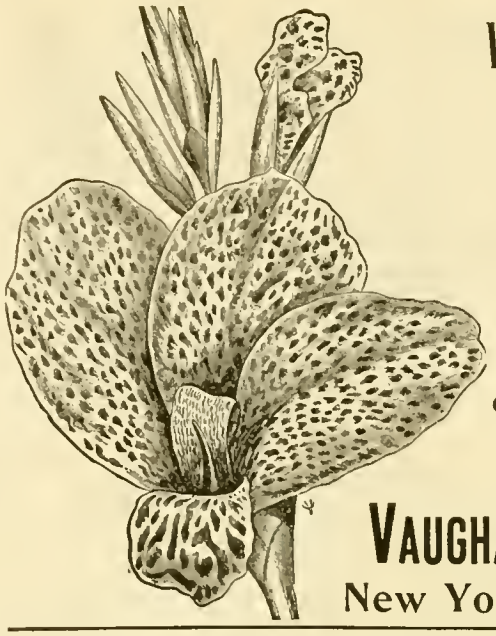
Mr. John Wiedey is reported as being quite seriously ill. MACK.

For Sale.

Ten shares of the A. T. De La Mare Printing and Publishing Co., Lt'd, (*Florists Exchange*). Apply to

ERNST ASMUS,

WEST HOBOKEN, N. J.



WE HAVE all the New Cannas, and at the right prices. Write for our list of World's Fair Medal Varieties.

Our Spring Book for Florists, complete in all lines, is now being mailed. Ask for it if you are not on our lists. It is worth asking for.

VAUGHAN'S SEED STORE,
New York. CHICAGO.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00. M. A. HUNT, Terre Haute, Ind.

GEO. W. WEST,
GROWER AND EXPORTER OF
BERMUDA BULBS,

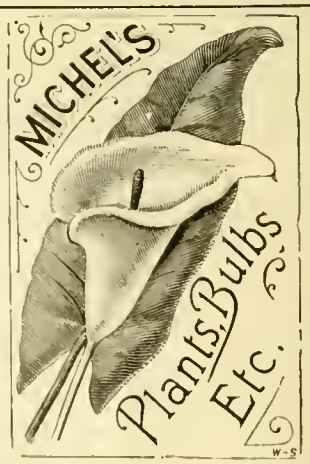
Lilium Harrisii,	Lilium Longiflorum,
Freesia Refr. Alba,	Calla Lily,
Amaryllis Johnsonii,	French Cannas, best vars.
Amaryllis Regina,	White Rom. Hyacinths

CYCAS PALM LEAVES
A Specialty.
SHELLY BAY, - - BERMUDA.

COLEUS. COLEUS. COLEUS.
Rooted Cuttings.
And we are giving them away, Golden Bedder, Golden Queen and Crimson Verschaffelti, at $6 per 1000. Other varieties, our selection, at $5 per 1000.

AGERATUM, blue and white	$.75	per 100
FUCHSIAS, the leading sorts	1.00	"
The same from flats	1.25	"
PETUNIAS	1.50	"
HELIOTROPE, 4 varieties	1.00	"
SALVIA SPLENDENS	1.00	"

Cash must always accompany the order.
J. E. FELTHOUSEN,
370 Van Vranken Ave., SCHENECTADY, N. Y.



Write for Wholesale List.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Verbenas
SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" " rooted cuttings,	1.25	10.00
General collection, named, "	1.00	8.00
" " 2¼-inch pots	2.50	20.00

Send for price list of Carnations, Chrysanthemums and other florist stock.
WOOD BROTHERS,
Fishkill, N. Y.

MR. GONZALEZ IN JAPAN.

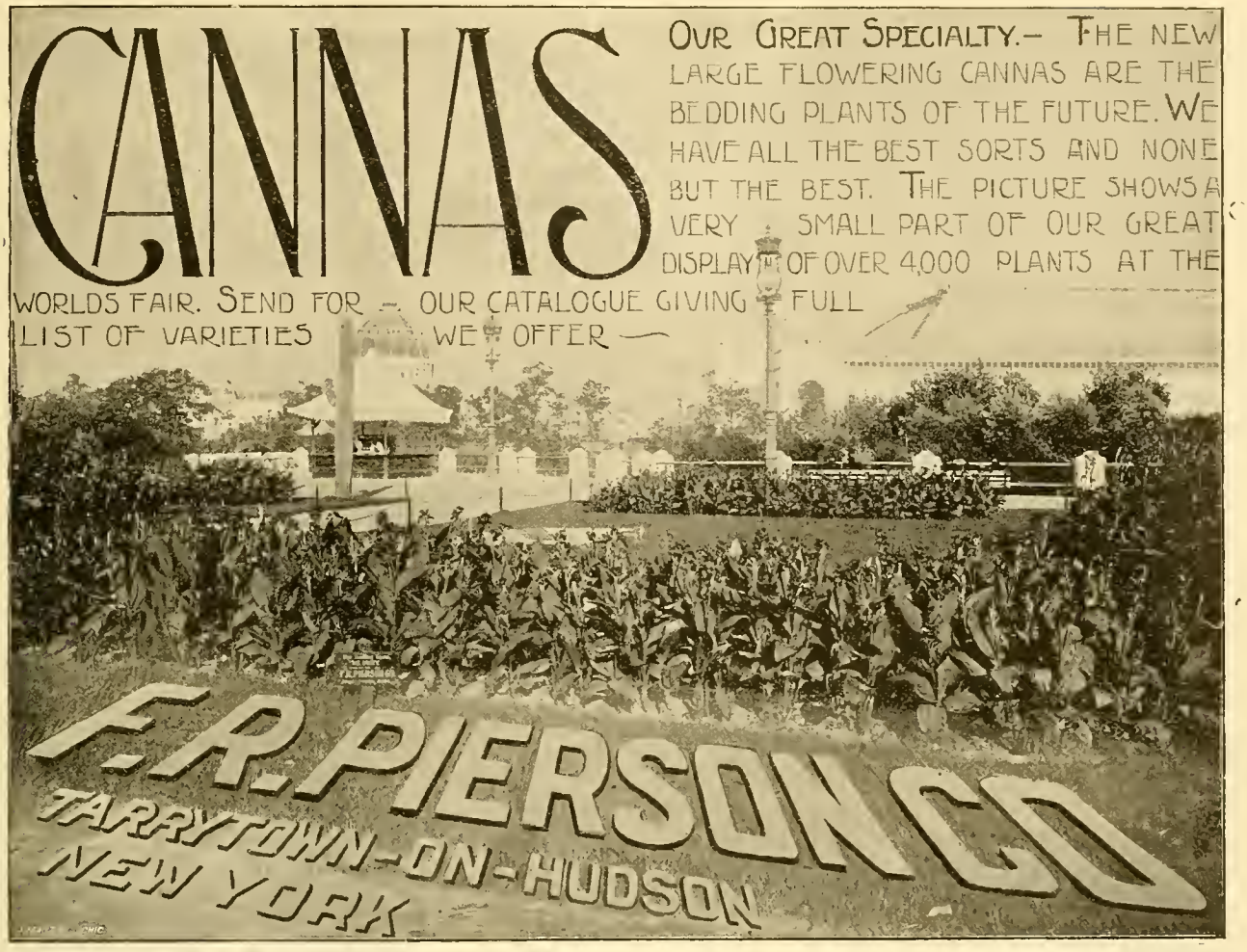
Mr. Gonzalez of the **firm** of **F. Gonzalez & Co.**, of San Francisco, for the past two months has been traveling and collecting the finest and rarest stock of **Japanese Plants**, bulbs, etc., etc., that can be had in **Japan**.

He will return with stock on or about **February the 27th**, when he will be prepared to supply **all orders**. His twenty years experience in the importing business insures to all that his selections are carefully and well made. He understands the natural habit and growth of every plant of note or worth of **Japan**, as well as the pleasures and whims of **American fanciers**.

The fair dealing, the superior stock, the careful attention giving to **packing** and **shipments** by **Mr. Gonzalez's** firm secures for him the enjoyment of a steady and ever increasing trade.

Persons contemplating handling **A No. 1** stock will do well to communicate early with

F. GONZALEZ & CO., Wayne and Crescent Ave., San Francisco, Cal.



Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

Mention American Florist.

ORCHIDS SUITABLE FOR THE TRADE

The Leading kinds for cut flower purposes.

I. FORSTERMAN,
NEWTOWN, L. I., N. Y.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich St., New York City.

VERBENAS, MAMMOTH, perfectly clean, strong plants, $2 per 100. Transplanted Cuttings, $1.00 per 100. Rooted Cuttings, $6.00 per 1000. All to color. Cash.
W. B. WOODRUFF, Florist, Westfield, N. J.



4,000,000 EVERGREEN CUT FERNS

ESPECIALLY FOR FLORIST'S USE.

$1.25 PER THOUSAND FERNS.

IN LOTS OF 5000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

L. B. BRAGUE, Hinsdale, Mass.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

VERBENAS

Superbly colored large flowering sorts. Best varieties in cultivation. Ready now, Fine Healthy Plants in assortment. $2.50 per 100; $20.00 per 1000. Finely Rooted Cuttings, $1.00 per 100; $8.00 per 1000. If wanted later will book orders for future shipment up to May 1. We pack light and guarantee satisfaction.

F. WALKER & CO., 644 FOURTH AVE., LOUISVILLE, KY.

WHY NOT TRY
A FEW ORCHIDS?

They are Very Cheap. They are Easily Grown. They Sell Well.
They always attract attention in store or greenhouse.

BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

SEEDS Rarest newest, cheapest Carnations, Picotees from 100 best named kinds 50c; 400 sorts $1; 1000 sorts $3, all pot grown. Greatest variety in Europe. Be astonished; get list, will pay you. No such value.
A. BROUNT, Crowboro, Sussex, England.

Galax Leaves.

You cannot afford to be without them if you sell Cut Flowers and Decorate. Especially for Christmas. Big money in them. I sold 300,000 in 3 months last winter. $2.00 per 1000 by express. Sample 100 sent by mail on receipt of 50c.

LINCOLN I. NEFF, Florist,
4010 Butler St., PITTSBURG, PA.
AGENT FOR HARLAN P. KELSEY.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

PARIS, FRANCE.—A serious fire and explosion was caused by the upsetting of a lamp in Vilmorin, Andrieux & Co.'s establishment February 11. The flames were put out before serious damage was done, but an after-explosion, caused by bringing a candle into contact with an oil tank, shook all the adjoining buildings and seriously burned seventeen workmen and ten firemen, one of whom was killed outright.

How Shall We Classify Them?

I would like to know in what class you locate a certain kind of florists who send out trade catalogues and then sell a dollar's worth of plants to one's customers as low (and sometimes lower) than to the florist. To a man up a tree they are worse than the street fakir or the dry goods man who adds flowers to his stock. JED MOUNT.

COLEUS.

Our stock is large and handsome, consisting of 70 to 75 varieties, including the very newest kinds.

ROOTED CUTTINGS, in 30 to 40 varieties, (our selection), at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.

NEW KINDS, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.

Golden Verschaffellii and Mrs. I. D. Haight (yellow), at $8.00 a 1000. *We will include* at least 50 cuttings of the *new kinds* in every 1000 purchased.

CARNATIONS.

A large stock of BUTTERCUP in prime condition.

Rooted Cuttings, $5.00 per 100; $40.00 per 1000. Prices of other kinds on application.

Send for circular. Safe delivery guaranteed in all cases.

W. R. Shelmire,

. . . AVONDALE, PA.

The Best Carnation in the Market.

THE ADELAIDE KRESKEN

Which was originated in 1891, and flowered in the same year, is conceded by all to be the prettiest Carnation ever grown. Strong grower, free from rust, 1½ ft. high, stiff stem, good calyx, and the flower (of a beautiful rosy pink color) averaging three inches and over.

A VERY FREE BLOOMER. In addition to receiving the Best Seedling Prizes at Cincinnati, O., Club Certificate at Springfield, Mass., and Milwaukee, Wis., Hunt Prizes, Indianapolis, Ind., it has received Certificates of Merit at the American Florists' Society, St. Louis, Mo.; also the best vase of pinks at St. Louis, Mo., and Certificate of Merit at Toronto. The undersigned begs leave to submit the following exceedingly low prices for Rooted Cuttings, which will be ready March 1st, 1894: $2.00 per doz.; $10 per 100; $15 per 500; $80 per 1000.

Cash must accompany all orders. Address all communications to

PETER HERB, Mt. Healthy, Hamilton Co., O.

Mention American Florist.

ROOTED . .

CARNATION

. . CUTTINGS

Of the New and Standard varieties.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

CARNATIONS.

Strong, healthy, well rooted cuttings now ready.

SAMUEL J. BUNTING,

Elmwood Ave. and 58th St., PHILADELPHIA, PA.

Higher

prices have been paid this season in Boston for Ada Byron and Nicholson than for any other Carnations because they are the Purchasing Public's Ideals.

Ada Byron is the deepest yet brightest pink imaginable, Nicholson is just the color of a Mad. G. Luizet Rose. Language cannot describe the sweet, clove-fragrance they possess. They are superior in vigor, size, color, fragrance, keeping and selling qualities to any yet produced.

First Prizes and Certificates at New York, Boston and Springfield.

Send for priced descriptive circular to the Originators' Sole Agents.— Joseph Breck & Sons (Corporation) 47 to 54 North Market St. Boston, Mass.

Carnations==Panic Bargains

	Per 1000		Per 1000
Lady Emma or Portia	$ 10.00	Puritan	$ 15.00
White Dove	10.00	Pearl	20.00
Lizzie McGowan	10.00	Edna Craig	20.00
Schaffer	10.00	Daybreak	20.00
Grace Wilder	10.00	Thos. Cartledge	20.00
Mrs. Robt. Hitt	10.00	Mayflower	20.00
Grace Darling	10.00	Hector	20.00
White Wings	10.00	Amy Phipps	25.00
Crimson Coronet	10.00	Blanche	25.00
Golden Gate	10.00	Mrs. E. Reynolds	25.00
American Flag	10.00	Richmond	25.00
Attraction	15.00	Wabash	25.00
J. J. Harrison	15.00	Western Pride	25.00
Aurora	15.00	Dr. Smart	25.00
Louise Porsch	15.00	Purdue	25.00
Nellie Lewis	15.00	Florence Van Reyper	25.00
Orange Blossom	15.00	Buttercup	35.00
Tidal Wave	15.00	New Jersey	25.00

ROOTED CUTTINGS OF VERBENAS, $7.00 per 1000.

Strictly Cash with order. Orders filled in rotation.

ESSEX HEIGHTS FLORAL CO., BELLEVILLE, N. J.

Mention American Florist.

Rooted Cuttings. # CARNATIONS. Rooted Cuttings.

ALL THE BEST VARIETIES IN CULTIVATION.

FINE STOCKS OF DAYBREAK, EDNA CRAIG AND CARTLEDGE.

NO DISEASE! NO RUST!

Catalogues ready January 1st, '94. Correspondence solicited.

Address **H. E. CHITTY, Paterson, N. J.**

The Jacqueminot Carnation . .

IS A PERFECT SUBSTITUTE FOR THE JACQUEMINOT ROSE.

Many buy it in preference because of its lasting qualities, and you can have it in bloom when the rose is out of season. Send for descriptive circular, enclose 10c. and we will mail you long stem sample bloom. The color is a bright crimson (no black in it). If the blooms look dull on arrival, they have been chilled or frozen. Notify us, we will ship again.

PETER FISHER & CO., ELLIS, NORFOLK CO., MASS.

Mention American Florist.

ROOTED CUTTINGS OF

CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chester Co., PA.

FOR EXCHANGE.

A modern apartment building in Hyde Park, Chicago, 61 buildings detached all or part, for a greenhouse plant to be taken down and shipped or to run wherever located. If location suits, or for nursery stock an equity of $18,000, will assume some or any difference in cash.

F. N. PERKINS, Kenton, Ohio.

DAYBREAK, NANCY HANKS And CARTLEDGE.

NOW READY.

FINE, CLEAN, HEALTHY STOCK. SPECIAL PRICES to large buyers of these splendid Carnations.

Address **H. E. CHITTY, Paterson, N. J.**

20,000 ROSES, 2½-in. pots, Mermets, Brides and Perles.

15,000 CARNATIONS, Portia, Hinze's White and Golden Gate.

Roses $30.00 per 1000. Carnations $12.00 per 1000.

STEELE & BALDWIN,

P. & B. C. R. R. Swarthmore, Del. Co., Pa.

Another Good Hand.

Some unsolicited testimonials in regard to **SWEETBRIER.**

S. Lancaster. Mass , Jan. 26th.

Dear Sir:—I am much pleased with the cuttings of Sweetbrier. They are ideal plants to send out.

Yours truly, E. O. ORPET.

Lancaster, Pa., Jan. 29th, '94.

Mr. Ed. Swayne, Kenuett Square, Pa.

Dear Sir:—The plants came all right and are a credit to their grower. Many thanks for your promptness. Yours truly, ALBERT M. HERR.

Alliance, O., Feb'y 7th, 1894.

Edward Swayne.

Dear Sir:—I will say this much for Sweetbrier, that it is an excellent keeper. Mr. Davis when taking orders here, left with us about one dozen of these beautiful carnations, and in 18 days thereafter we used one in making up a bouquet, and the party getting it remarked "Oh what a beautiful carnation." They had been kept in a cellar without ice. Yours respt.,

J. F. ZIMMERMAN.

Neville Island, Feb. 7, '94.

Edward Swayne, Keunett Square, Pa.

Dear Sir:—Carnations rec'd this afternoon in very nice conditiou Please accept our thanks for fine stock sent. The cuttings were clean, strong and well rooted. Yours truly,

BECKERT BROS.

Raudolph, Mass., Feb. 10th, 1894.

Mr. Swayne.

Sir:—Can you send us *now* "500 Sweetbrier"? If so, you can ship and we will send check immediately. Saw some you sent Mr. E. Cartwright, much pleased with them.

Yours respt., MANN BROS.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. K. Freeman's, Washington, last winter.

"I like its color better than Daybreak."

EDWIN LONSDALE.

"Sweetbrier is all that can be desired."

W. A. MANDA.

Rooted cuttings, $10.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000.

Send for price list.

EDW. SWAYNE,

KENNETT SQUARE, PA.

CARNATIONS

Few Varieties Succeed in all Localities.

We give here a few standard sorts which are ready for immediate delivery at $12.00 per 1000 and upwards. These are generally successful and for the cut flower trade make a **Fine Collection.**

Silver Spray, (white)	E. Pierson, (scarlet)
Lizzie McGowan, (white)	Portia, (scarlet)
Blanche, (white)	Pres. Garfield, (scarlet)
Wm. Scott, (pink)	Wabash, (crimson)
Daybreak, (pink)	F. Mangold, (crimson)
Edna Craig, (pink)	Tidal Wave, (carmine)
Annie Pixley, (pink)	T. Cartledge, (carmine)
M. Albertini, (pink)	J. J. Harrison (var.)
Golden Gate, (yellow)	Dr. Smart, (var.)

Varieties of 1894 ready April 1. Goldfinch, (yellow); Uncle John, (white); The Stuart, (scarlet); Helen Keller, (var.) and E. A. Wood.

Send for our complete Price List of above and many others.

GEO. HANCOCK & SON,

GRAND HAVEN, MICH.

50,000 Carnations.

ROOTED CUTTINGS READY.

NO "RUST."

SEND FOR LIST. . . .

Wm. Swayne,

P. O. Box 226. KENNETT SQUARE, PA.

CARNATIONS AND VERBENAS.

ROOTED CUTTINGS.

We have a large stock of Daybreak, Puritan, Edna Craig, Aurora, McGowan, Nellie Lewis, and other leading varieties. Also immense stock of Mammoth Verbenas.

Send for prices on what you want. Catalogue ready about January 15th. Send for it.

VICK & HILL, Rochester, N. Y.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

CARNATIONS.

Varieties good. Cuttings good. Lizzie McGowan, Silver Spray, Aurora, Grace Darling, Portia and J. K. Freeman, at $1.25 per 100; $10 per 1000. Fred Dorner, $2.00 per 100; $12.50 per 1000. Daybreak, at $2.50 per 100; $20.00 per 1000. Edna Craig, $3.00 per 100; $25.00 per 1000.

Annie Pixley and Helen Keller.

PIXLEY is one of those beautiful light pinks, with a fair sized flower and good, strong calyx. With ordinary culture stems can be cut twenty inches long. The flower is a model in form, and the growth is strong and healthy.

KELLER you know all about, they are both sure to make good paying varieties for cut flowers.

Pixley per 100, $12.00; per 1000, $100.00.
Keller per 100, $12.00; per 1000, $90.00.

Verbena Lancaster Beauty.

Decidedly the prettiest Verbena that grows, novel as well as beautiful and sells at sight.

Price, per 100, $2.00.

PANSIES.—I can still supply a few of those seedling plants at $5.00 per 1000, or 75 cts. per 100. The same good strain I always have.

No list published and terms are cash before shipping or C. O. D.

Coleus at $7 per 1000. Alternanthera, transplanted, Red, Yellow, Pink, $1.25 per 100; rooted cutting, $6 00 per 1000.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

EVERYBODY who sees the new and beautiful Fancy Carnation "HELEN KELLER"

are favorably impressed with it, and generally leave an order.

CERTIFICATE OF MERIT

By American Carnation Society at Indianapolis, February 20, 1894. . . .

Orders booked now and filled in rotation, commencing March 15, '94. **Strong Rooted Cuttings, $3.00 per Dozen; $12.00 per Hundred; $90.00 per Thousand.** $2.00 per hundred additional for plants from thumb pots. *Orders may be sent either to*

EDWIN LONSDALE, *CHESTNUT HILL, PHILA.* or **JOHN N. MAY,** *SUMMIT, N. J.*

"Washington, —— New York" AND BOUTON D'OR.

January, 25, 1894.

MESSRS. DAILLEDOUZE BROS., *Gentlemen:*—We wish to compliment you on the qualities of your new yellow carnation Bouton d'Or. It is the best yellow carnation we have ever handled; being a splendid keeper, sells on sight, and will always be in demand.

[Signed] Yours truly, J. H. SMALL & SONS.

PRICE, $2 per Doz.; $10 per 100; $75 per 1000. ROOTED CUTTINGS READY MARCH 1, 1894.

Orders filled in strict rotation. Come and see it grow and be convinced. Only one hour from New York City.

Dailledouze Bros., Flatbush, L. I., N. Y.

NO DISEASE MEANS LARGE CROPS AND GOOD PRICES

Buyers of rooted cuttings of CARNATIONS are fast learning the superior merit of the stock grown and sent out by

• • • THE COTTAGE GARDENS,

——QUEENS, L. I.

P. S.—Send for new 28 page Illustrated Catalogue just out.

4 NEW CARNATIONS FOR 1894.

UNCLE JOHN, white; **THE STUART,** scarlet; **E. A. WOOD,** pink variegated; **GOLDFINCH,** yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from **Headquarters.** We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Eliz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.

Send for price list.

F. DORNER & SON, La Fayette, Ind.

CARNATIONS

Rooted Cuttings, Now Ready.

	Per 100	Per 1000
DAYBREAK	$3 00	$25 00
BUTTERCUP	4 00	35 00
PURITAN	2 00	15 00
SILVER SPRAY	1 50	10 00
LIZZIE McGOWAN.	1 50	10 00
GRACE WILDER	1 50	10 00
PORTIA	1 50	12 00

Cash with order. 10c. per 100 extra when ordered shipped by mail.

Send for wholesale price list of Rooted Cuttings and Plants.

JAMES HORAN, Florist, **Bridgeport, Conn.**

Legal Pointers.

Liability of telephone company for mutilation of shade trees.—It has been decided in Canada that the owner of abutting property may maintain an action against a telephone company for injury to ornamental shade trees on the street in front of his property, where such company has been authorized to construct its lines along the streets of the city, provided it shall not cut down or mutilate any trees, where there is no evidence to rebut the presumption of ownership to the middle of the street.

Catalogues Received.

A. W. Livingston's Sons, Columbus, O., seeds; Jas. J. H. Gregory & Sons, Marblehead, Mass., seeds; H. G. Faust & Co., Philadelphia, seeds; Phœnix Nursery Co., Bloomington, Ill., nursery stock; American Exotic Nurseries, Seven Oaks, Fla., tropical plants; W. A. Brotherton & Co., Rochester, Mich., ornamental hardy plants.

CARNATIONS

Rooted Cuttings of the following varieties now ready. Entirely free from rust. I have never had rust on the place.

	Per 100
PORTIA	$1 00
LIZZIE McGOWAN	1 00
PURITAN	1 25
NELLIE LEWIS	1 50
FRED. DORNER	1 50
GRACE WILDER	1 00
AURORA	1 50

10,000 Rooted Cuttings Carnations ready. If wanted by mail, add 10c. per 100 for postage.

COLEUS.

A large stock of strong rooted cuttings ready. Price 50 cts. per 100; many nice varieties. Golden Bedder if ordered alone 65 cts. per 100. If Coleus are wanted by mail, add 10c. per 100 for postage. 50,000 ready.

ALTERNANTHERA Aurea nana, 50 cts. per 100.
" P. Major, 50 cts. per 100.

H. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

NEW AND CHOICE **CARNATIONS** . . FROM SOIL.

CLEAN, HEALTHY, VIGOROUS, STOCK, ONCE TRANSPLANTED. READY TO POT UP OR PLANT OUT. APRIL DELIVERY.

Uncle John and **The Stuart**, Dorner's new seedlings, $10 per 100; $75 per 1000. **Daybreak, Cæsar, F. Mangold, Pearl**, $3 per 100; $25 per 1000. Wm Scott, E. Craig, Richmond, Saratoga, Spartan, Dr Smart, E. Reynolds, Brutus, $5 per 100, $15 per 1000. Mme. Albertini, Buttercup, Stanley, $8 per 100, $50 per 1000. L. McGowan, Thos Carthedge, Puritan, A. Flag, Silver Spray, Portia, Tidal Wave, Orange Blossom, $2 per 100; $15 per 1000

TERMS, CASH WITH ORDER, OR C. O. D. WITHOUT EXCEPTION. 500 AT 1000 RATE, 50 AT 100 RATE DELIVERY STRICTLY IN ROTATION.

ALEX. McBRIDE, ALPLAUS, N. Y.

WM. SCOTT —AND— **GOLDFINCH.**

The former is the most prolific carnation we ever grew. It produces fully double as many perfect blooms as any other carnation we have ever seen. Of a most beautiful delicate pink, easy to grow and quick to sell. Goldfinch is a boon to florists for who does not need a good yellow, one that is sure to produce abundantly large perfect flowers. Such as one we believe Goldfinch to be. Send for prices on these and all other leading carnations in the market. GEO. HANCOCK & SON, Grand Haven, Mich.

IN THE FRONT RANK!

NEW WHITE CHRYSANTHEMUM

"MUTUAL FRIEND"

It is sure to be a prize winner and a leading variety for '94.

FIRST PRIZE and CERTIFICATE of MERIT MASS. HORT. SOCIETY, '93.

Orders booked now for March delivery, 50c. each; $4.00 per dozen. At these prices all should try it. We know it will please. Send for descriptive circular.

MANN BROS., Randolph, Mass.

New Chrysanthemum, MRS. J. GEO. ILS,

A CALIFORNIA SEEDLING.

Flowers sent from San Francisco to the Chicago Show awarded a MEDAL.

A grand white, of remarkable substance, size and depth of flower. See Illustration in AMERICAN FLORIST of November 16th. The very vigorous habit, and our large stock of this novelty, enables us to assure the trade of good plants, and to guarantee safe arrival. To be sent out the 1st of March, 1894, at the following prices to the trade:

75 cents each; $7.50 per 12 plants; $14 per 25 plants; $25 per 50 plants; $40 per 100.

ORDERS BOOKED NOW BY

JOHN H. SIEVERS, 25 Post St., SAN FRANCISCO, CAL.

Mention American Florist.

Olea Fragrans.

MAGNOLIA FUSCATA, CAPE JASMINE, CASUARINA, RED CATTLEY GUAVA, PITTOSPORUM, CAMPHOR TREES, ORANGES and LEMONS, grafted on dwarf stock.

2,000 BIOTA Aurea Nana, our new dwarf Golden Arbor-vitæ, a perfect gem.

☞Send for trade list, giving prices for other desirable florist's stock.

ADDRESS **P. J. BERCKMANS,**

Fruitland Nurseries, **Augusta, Ga.**

CARNATIONS,

	Per 100	Per 1000
Rooted Cuttings, standard varieties	$1.00	$9.00
Newer kinds and novelties	$3.00 to $12.00	

CHRYSANTHS,

Standard varieties	$1.00
Newer kinds and novelties,	$2.00 to $5.00
AGERATUM and ALTERNANTHERA	60c. $4.00
COLEUS and VERBENAS,	75c. $6.00

For other stock see list.

JOHN J. CONNELLY,
BRYN MAWR, PA.

CARNATIONS.

ROOTED CUTTING.

DAYBREAK, $2.50 per 100; $20.00 per 1,000.
SILVER SPRAY, McGowan.
GARFIELD, $1.50 per 100; $9.00 per 1,000.
TIDAL WAVE, $1.75 per 100; $12.00 per 1,000.
PORTIA, HECTOR.
LADY EMMA, $1.25 per 100; $8.00 per 1,000.

LAKE GENEVA FLORAL CO., Lake Geneva, Wis.

BUTTERCUP . . .

No yellow carnation has ever yet taken its place. 15000 Cuttings now in bench. Stock in prime condition. Free from rust and all disease. $5.00 per 100; $40.00 per 1000. Liberal discounts on large orders.

W. R. SHELMIRE,
AVONDALE, PA.

HEADQUARTERS

. . FOR . .

Bread and Butter Carnation Cuttings

PURITAN, LIZZIE McGOWAN, PORTIA, GRACE WILDER. PER 100 $1.00 PER 1000 $9.00

All other Good Kinds. Write for Prices.

S. J. REUTER, WESTERLY, R. I.

CHRYSANTHEMUMS —AND— CARNATIONS.

Send for trade list.

NATHAN SMITH & SON,
167 W. Maumee St., ADRIAN, MICH.

ONE HUNDRED AND ONE FINE CHRYSANTHEMUMS FOR $3.00.

All fine commercial varieties including one of the new early pink Mrs. E. G. Hill. Other stock in proportion. Write for what you want.

W. C. COOK & CO.,
70th St. & Madison Ave., CHICAGO.

NEW CHRYSANTHEMUMS.

SPECIALTIES: Including The Queen, Niveus, Mrs. F. L. Ames, Golden Wedding, Judge Holtt, and Good Gracious. Twelve plants for $1.00.

NOVELTIES: Including The World, White Eagle, Monarch of Ostrich Plumes, Silver Waves, and Pascha. Fourteen plants for $1.00.

GENERAL LIST: Including many new varieties. Sixteen plants for $1.00.

Now ready for delivery. Send for catalogue.

M. B. LITTLE, GLENS FALLS, N. Y.

Hard Time Prices.

STOCK PLANTS.

GEO. W. CHILDS, WABAN, MRS. L. C. MADEIRA, VIVIAND-MOREL, V. H. HALLOCK, JESSICA, J. C. VAUGHAN, AMI HOSTE, DIANA, at $1.00 per dozen.

Cash with Order.

SOUTH SIDE FLORAL CO., Springfield, Ill.

STOCK CHRYSANTHEMUMS.

Pres. W. R. Smith, best pink 1893	each 40c
Niveus, fine white	" 40c
Golden Wedding, extra yellow	" 35c
A. T. Ewing and Alba Venus	" 25c
And a host of standard sorts	" 15c

BROWN & CANFIELD, Springfield, Ill.

ROOTED CUTTINGS.

Chrysanthemums AND Carnations.

Write for list and prices. Prices to suit the times.

Address J. G. BURROW, Fishkill, N. Y.

SMILAX.

CUT SMILAX—Half an acre ready to cut now. Quality A 1.

EASTER ORDERS BOOKED NOW.

SMILAX PLANTS—Extra strong 1 yr. old, $2.50 per 100; $20.00 per 1000.

TRANSPLANTED SEEDLINGS—$1.00 per 100; $8.00 per 1000.

SMILAX SEED—A few ounces left; crop of 1893, at 50c. per ounce.

JOS. E. BONSALL,
WHOLESALE FLORIST,
308 Garfield Avenue, SALEM, OHIO.

ROOTED CUTTINGS. Per 100

Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Coleus of sorts, mixed	.50
" best new and old, named	1.00
Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00
Fittonia, red veined, $2 00; silver veined	1.50

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't $3.00 and	4 00
Abutilons, assorted	4 00
Echeveria glauca $2.00 and	3.00
Extensa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted $2.00 and	3.00
Hibiscus, assorted	4 00
" Schizopetalus	6.00
Anthericum picturatum per dozen, 75c.	
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00
Silver-Leaf Geraniums, 3 varieties (no Mme. Salleroi)	4.00
Oxalis, Ortgiesi and Bowii	4.00

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.

Rooted Cuttings.

100 Coleus, 10 kinds by mail **60c**

Shelly's Yellow and Verschaffeltii,
By Express $5.00 per 1000.
With 12 other good kinds 4.00 per 1000.

ALTERNANTHERA P. Major and Aurea Nana, by mail, 50c. per 100.
Sample dozen by mail, 10c.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

New, Rare and Beautiful Plants.

A large collection of choice Hothouse and Greenhouse Plants, carefully grown, at low rates.

RARE AND BEAUTIFUL EVERGREENS, ORNAMENTAL TREES, SHRUBS, &c.

ORCHIDS.—A very extensive stock; East Indian, Northern, Central and South American, etc.

PÆONIES.—A collection of the finest in cultivation.

Hardy Perennials, Phloxes, Japanese Iris, Roses, Clematis, etc. New and Standard Fruits, etc.

☞ Catalogues on application.

JOHN SAUL, Washington, D. C.

We Pay the Express.

100,000 PANSIES,

grown from seed that has no superior, strong, stucky plants nuce transplanted. 60c per 100; $4.50 per 1000.

MAMMOTH VERBENAS—Rooted Cuttings in all the most brilliant colors. 70c per 100; $5.50 per 1000, delivered free at your door.

S. WHITTON & SONS, Wholesale Florists,
9 & 11 Roberts St., UTICA, N. Y.

CLEMATIS.

A fine lot of 2-year old plants: Jackmanni, Duchess of Edinburg, Henryii, C. Lovelace, Fairy Queen, Lady Neville, Gem, P. Alexandra and others, $3.00 per dozen; $22.00 per 100.

SMILAX SEEDLINGS,

from fall, 75 cents per 100; $6.00 per 1000.

F. A. BALLER, Bloomington, Ill.

Always mention the American Florist when writing to advertisers.

VICK'S NEW WHITE BRANCHING ASTER



THE FLORISTS' FAVORITE.

Has no superior (often sold by Florists for Chrysanthemums). Easily grown from seed. Anticipates the Chrysanthemum by several weeks. Has long stems; flowers pure white, 4 inches or more in diameter; petals broad, long, and many of them more or less twisted and curled. Plant is a strong grower, and has marked tendency to form numerous branches.

Packed in plain small packets or envelopes ready to place inside your own seed bags or in our regular bags.

=

For prices write

725 East Avenue, Rochester, N. Y.

NOVELTIES.

Branching Aster (often sold for Chrysanthemum.)
Hibiscus, Sunset.
Dahlia, Ethel Vick.
Large Morning Glories.
Double Anemone.
Charmer Pea.
Maggie Murphy and other Potatoes.

JAMES VICK'S SONS

DAN'L B. LONG,
Wholesale Florist,
Buffalo, N. Y., Feb. 2, '94.

JAMES VICK'S SONS.

"The flowers of Vick's New White Branching Aster received from growers last fall were remarkable in character and about the best selling flower we handled during the year." DAN'L B. LONG.

GENEVA, N. Y., Sept 15, 1893.

JAMES VICK'S SONS.

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Rights and duties of purchasers finding goods not as warranted.—There has been no little controversy in the courts as to the right of a purchaser to accept goods and rely upon the warranty thereof where they are found upon arrival at the place of delivery not to be in good condition. But the great weight of authority, as well as reason, is now well settled, says the United States Circuit Court of Appeals, that in cases of this kind and character if the goods upon arrival at the place of delivery are found to be unmerchantable in whole or in part the purchaser has the option either to reject them or receive them and rely upon the warranty; and, if there has been no waiver of the right, he may bring an action against the vendor to recover the damages for a breach of the warranty, or set up a counterclaim for such damages in an action brought by the vendor for the purchase price of the goods.

Read before signing.—It is remarkable how frequently otherwise careful business men will sign papers handed to them without first reading same. Stories are sometimes told of tests being made by friends and their getting signatures to checks and other documents which evince the greatest negligence. From the rural districts there arises in the courts one long and continuous protest against paying obligations unwittingly given to sharpers. But the law on the subject is well settled and plain. The Supreme Court of California says in a recent case (Smith v. O. & O. Steamship Co.) that when a person with the capacity of reading and understanding an instrument signs it he is bound by its contents, and is estopped from saying that its provisions are contrary to his intentions or understanding. Fraud and imposition may furnish grounds for relief under some circumstances, but not always, especially where negotiable paper has been transferred to innocent holders for value.

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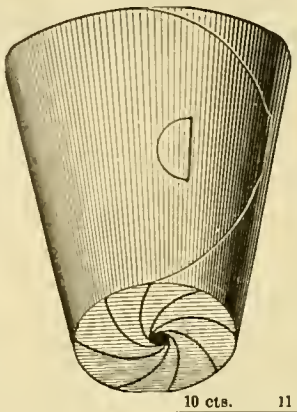
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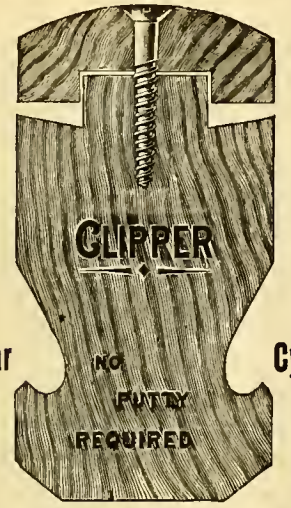
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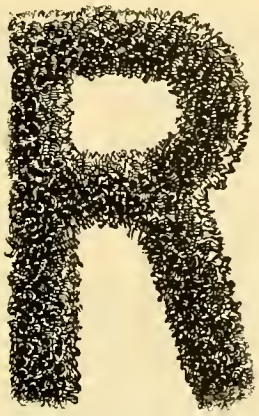
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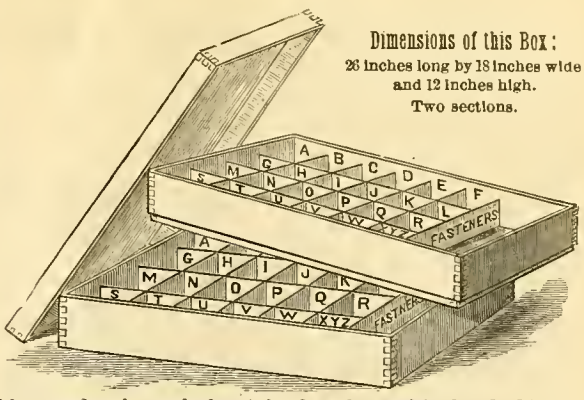
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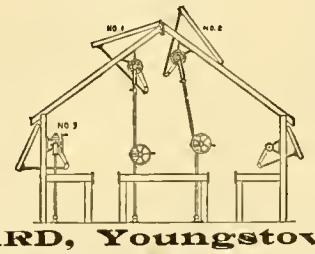
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Whether or not Lent will spoil it all is an open question, but it is pleasing to chronicle the fact that we have had good trade during the last three weeks; quantities of first-class stuff and very fair prices.

Roses are still in short supply on account of the dark weather, but when old Sol condescends to show us the light of his blooming countenance more frequently we will probably have roses in abundance.

An enormous lot of funeral work has kept everybody busy and helped to dispose of quantities of good flowers that otherwise would have gone into the rubbish heap.

The only social event of any importance happening lately was the Childs-Moen wedding on February 1. The decorations were very pretty though quite modest, as they drew on their own conservatories for a good deal of their stuff. The decorations were under the supervision of Fred Wesson. SEEDLING.

TUSCOLA, ILL.—The Tuscola Floral Co. has started in business here with two greenhouses, each 16x50.

HARTFORD, CONN.—John M. Harper has purchased the old stand of Thos. McRonald. Mr. McRonald has built a new range of greenhouses on another street.

CLEVELAND, O.—Mr. J. M. Gasser started recently on a two months trip through the south and west. He will visit all the points of interest in the south and California, returning by way of Salt Lake and Denver.

KANSAS CITY, MO.—Mr. Arthur Newell, of Newell & Kidd, was married January 23. After the wedding Mr. and Mrs. Newell took a trip down south. The bride carried a very handsome bouquet made of lilies of the valley and cattleyas presented by Mr. Sam'l Murray, manager of the Probst Floral Co.

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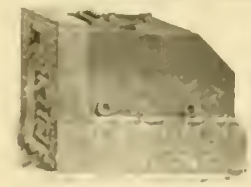
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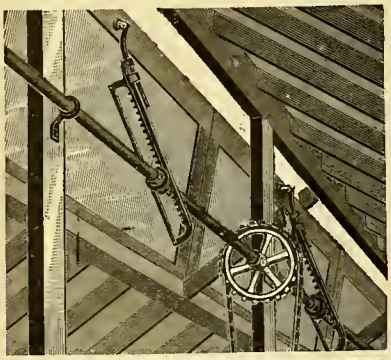
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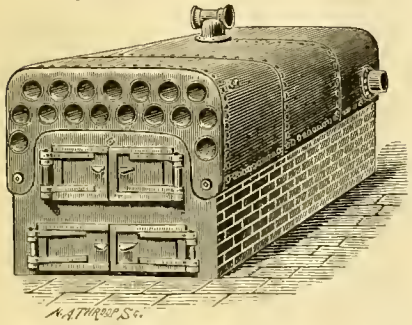
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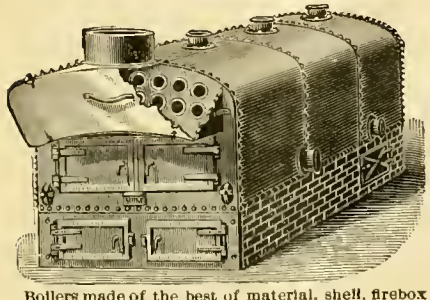
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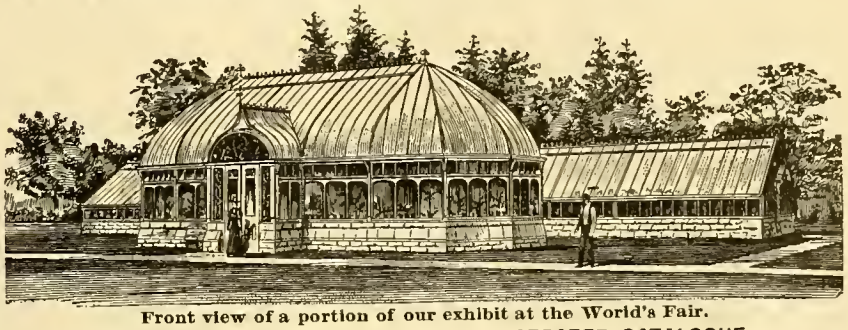
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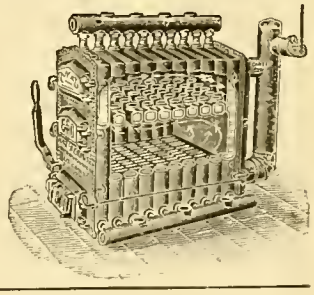
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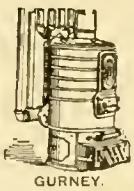


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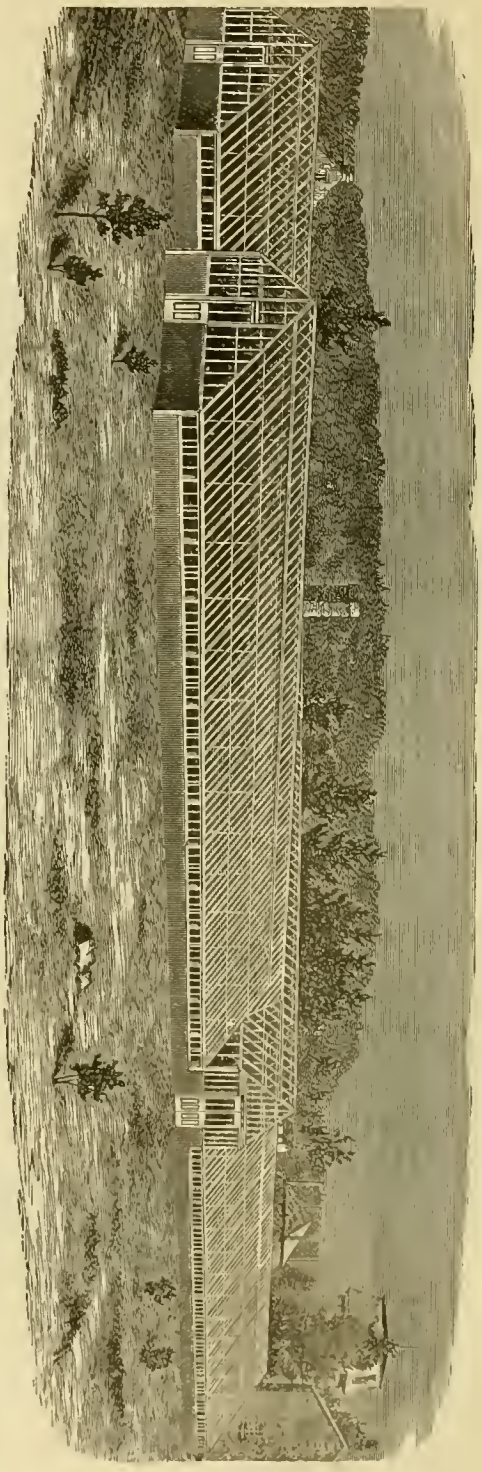
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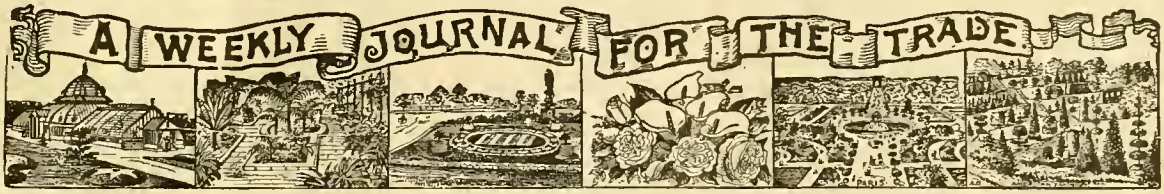
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Our Carnation Pictures.

The engravings that appear in this issue are from photographs taken at the Indianapolis meeting of the American Carnation Society of vases of flowers there on exhibition. Below each vase is a scale by which the size of the flowers can be readily determined. In photographing the reduction was made the same in each case so the comparison between them as far as size is concerned is accurate. Strength of stem, etc., is well shown by the way the flowers stand in the vase.

THE Chester County (Pa.) Carnation Society will give a carnation show at Wanamaker's, 13th and Market Sts., Philadelphia, March 8, 9 and 10. Flowers for exhibition should be forwarded, prepaid, to Wanamaker's, marked "Flowers for carnation show." They will be staged by the committee.

Cinerarias and Calceolarias.

BY KENNETH FINLAYSON.

[*Extract from a paper read before the Mass. Horticultural Society on February 24.*]

Cinerarias are propagated by seeds and cuttings, the latter method being seldom resorted to and only to be recommended for perpetuating extraordinarily good varieties. It is impossible to grow as large a plant in the same time from a cutting as from seed. The best seed ought to be purchased, for it is as easy to grow good strains as bad ones. The seed should be sown for large and early flowering plants in the latter part of May or early in June in pans or boxes four inches deep. These must be well drained and have a thin layer of sphagnum over the drainage to prevent the soil from entering it. The main aim in regard to the soil at this stage is lightness and porosity; therefore leaf mould and clean, sharp sand should be used in equal parts, with an additional fraction of fibrous loam. The pans or boxes should be filled within about an inch of the top and then made smooth and level. Sow the seeds evenly all over the surface; cover them lightly a little more than their own depth, press gently with a smooth board; then water with a fine spray-rose and put a pane of glass over the top of the pan to check evaporation. Consign the pans now to a frame to prevent draughts; the seeds will soon germinate, therefore be watchful and as soon as they make their appearance well over the soil remove the glass from the pans in order that they may not become lanky. If the frames are some distance from the glass the pans may be taken out and put on a shelf near the light, but not where the sun will strike them, for this would be instant destruction at this stage of their growth. The frames in which the plants are to be grown during the summer should have a northern exposure—that is, the higher side should face south and the lower side north. If there is a high board fence or wall as an additional shade, so that the sun could not shine on them at any time, this would be an ideal position not only for cinerarias, but for many other plants. When this cannot be found the glass must be painted with a thin coat of white lead mixed with turpentine or kerosene. Lath shades should also be made of the same width as the sashes, the framework one inch square with diagonal braces, and the laths one inch wide, half an inch thick and the same distance apart. The seedlings being in boxes underneath this carefully prepared canopy they will make rapid growth and in a short time can be transferred from boxes to three inch pots, returning them to the frames thereafter and plunging them in coal ashes or any other loose material up to the rims of the pots, coal ashes being preferable on account of its porosity and the barrier it offers to earth worms. The soil at this potting may have a further addition of loam and a corresponding decrease of sand, with a small quantity of well decayed cow manure added.

All that is necessary now for a while is shading, watering and syringing overhead at least once a day on hot, bright days—preferably in the evening when the sun has passed entirely over them—this furnishing the necessary moisture in the bed and keeping down thrips and red spider. Greenfly must also be looked after with the utmost vigilance. The best way to combat it, while the plants are growing in frames, is to chop tobacco stems and strew them over the surface of the beds to a considerable thickness, renewing them at intervals. This is the only time that cinerarias can be considered difficult to grow, for in spite of all care some of them are likely to vanish. The hot and dry atmosphere from the latter part of June to the middle of August is a severe trial to any rapid growing plant. After the middle of August it is comparatively easy for the cultivator, and instead of being at his wits' end to keep them living and healthy, his trouble will be to keep them provided with pot room, for, like many other rapidly growing plants, they should not become pot bound until they are in the pots in which they are to flower. For commercial purposes eight and nine-inch pots may be used, the latter being sufficient for very large plants.

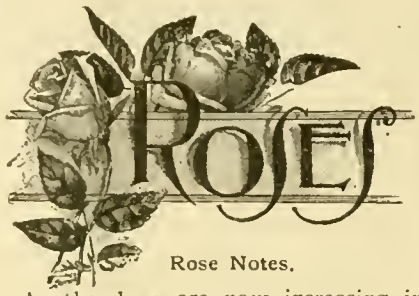
Returning to the plants in the three-inch pots, all that are strong and healthy and have filled their pots with roots may be transferred to pots two sizes larger at each successive potting. This is for novices; but the professional may use one size larger, that is, from a three to a six-inch size, and from a six to a nine-inch, but much tact and knowledge are required in watering plants after such ample shifts. This extreme latitude in potting cannot be extended to any but rapidly growing plants. At this stage the soil plays the most important part. The chief component of soil for all plants with few exceptions should be decomposed sods from a grass pasture that has not been tilled for a considerable time. The best sods are those found in hollows in such pastures. The sods should be cut of the usual thickness for sodding and piled up with a layer of cow manure free from litter between every three layers of sods. If they can be left for a twelvemonth in this pile before using they will become mellow and better, and the fertilizing agents in the manure will be more thoroughly incorporated. The compost should be chopped with a pickaxe or spade before using, the fineness of the chopping depending on the nature of the plants to be potted, but it should never be too finely chopped or screened. Leaf moulds and fine clean sand in quantity according to the nature of the plants may be added at

this time, mixing thoroughly and if possible leaving the compost for a month before using. The soil will then go through a process of fermentation which will sweeten it. For the final potting of cinerarias a six-inch potful of pulverized sheep manure, a ten-inch potful of leaf mould and two ordinary shovelfuls of sharp sand may be added to the sods and cow manure.

In October the plants, being in the flowering pots, the pots should not be plunged more than one-third their depth in the plunging material. The nights increasing in length and the sun being less strong, evaporation is less rapid, and everything that tends to excess of moisture will make them spindly. Considerable of the morning and afternoon sun should be admitted to build up a stocky and sturdy constitution. The best strains are naturally stocky and will as a rule form pretty shapely plants without much training on the part of the cultivator, but some of them will be disposed to throw their leading flower head to a considerable height above the foliage, impairing the beauty of the plant. This must be corrected as soon as it is noticed by nipping out the central flower spike, so that the lateral spikes may assume the command, as they will almost invariably do, rising to a uniform height above the foliage and forming a close, dense head. The plants ought to be taken into the greenhouse any time in November for early flowering, which will commence in January, or earlier if desired. The proper night temperature in winter is from 40° to 45°, on bright, sunny days 55° to 60°, with abundance of air when the weather permits. With this treatment they will be so free from insects that there will seldom be occasion to fumigate more than once during the winter.

Cinerarias are gross feeders and will take an abundance of food after the pots are well filled with roots. Once or twice a week will not be too often to give it, provided it is not too strong and the weather is bright. A heaping tablespoonful of guano and the same quantity of soot in six gallons of water may be used; the soot intensifies the color. Liquid cow manure is very good as a stimulant and can be used freely. Standen's fertilizer is excellent, but as it is not easily dissolved in water it is better to spread it over the surface of the earth in the pots, where it will dissolve gradually. A teaspoonful is sufficient at one time for a ten or twelve-inch pot; it is better to repeat oftener than to give too large a dose at once.

The culture of the calceolaria is similar to that of the cineraria in almost every particular. The former, however, is not generally sown until about the first of August; the seeds being much smaller, require more attention in their early stages to insure success. Being even more impatient of high temperature than the cineraria, they require the coolest and shadiest position to germinate freely. They are also more sensitive to bright sunlight, and must therefore be well shaded in sunny weather. They must always be kept close to the glass, whether in frames or greenhouses, to encourage a sturdy and stocky growth. The green aphis is particularly partial to this plant; it will attack the under sides of the leaves and increase in great numbers before its presence is otherwise discovered, therefore the under sides of the leaves must be examined frequently. Strewing tobacco stems in quantities round the pot is the best way of warding off this enemy. The plants require an abundance of water when well grown, but as little moisture as possible should be tolerated on the benches when they are in full flower, otherwise the flowers will get spotted very quickly. Shading when in flower is very necessary, the beauty of the flowers being preserved thereby to double the time it would otherwise last.



Rose Notes.

As the days are now increasing in length they will give us also more sunlight, this means that more air and water can be given to plants in active growth, and where the soil is well filled with active roots and the plants show signs of needing more food some stimulant can now be applied, either as mulching or in the shape of liquid manure. If decided to apply as a mulching a thin coat of pure ground bone spread very evenly over the surface at the rate of twenty-five to thirty pounds to a house one hundred feet long by twenty feet wide, covering this with about half an inch of fine, well decomposed manure will be found of great service to increase the size and general quality of the flowers. As a general thing this will be found a much more satisfactory way of applying stimulant than in the form of liquid manure for the reason that every time the plants are watered a limited amount of this material will be carried down to the roots, which in turn they can more readily assimilate than if applied in larger quantities at any one time. It also acts very beneficially by gradually inducing new roots to form near the surface, which in time will take entire possession of this mulching, and where it does so the result is certain to be a great increase in healthy vigorous shoots and size of flowers, and where reasonable care is taken in watering the best results are usually obtained from this method. On the other hand, where the stimulant is applied in the form of liquid manure it very frequently happens that the plants get more than they can utilize, or, to be more explicit, over-watered. This means stagnation, which in turn causes a sudden check to the active growth; this must be guarded against at all times if the best results are to be obtained. To many of your readers this will undoubtedly appear unnecessary, as it has been so often repeated in these columns, but the same doctrine has been preached for generations to followers of horticulture, yet I fear many are still unbelieving even after they get into the "slough of despond," hence it may still be well to remind them not to get deeper into the mire. Some may say—"Why keep harping on a worn-out string," because they have never had any difficulty in this line, so much the better for them, but many of their brother florists may have been less fortunate. Probably the nature of their soil has very much to do with this. It is a well known fact that some soils can be given twice or three times as much water as others without injury, in fact, quite advantageously; but, let these same growers get hold of a close, retentive soil and the result will be very different. Any plant that from the nature of the soil can be watered very freely every day will invariably do much better than one that can only be watered at distant intervals, and to those having the latter the above is very much more applicable.

Where hybrids are forced and are now showing buds the size and color can be considerably improved by fairly liberal treatment from now until the blooms begin to open. To get really fine flowers of these they should get all the air possible during the day, when the weather will permit it, and the temperature never be allowed to exceed 50° at night. Where grown in pots or boxes to succeed other crops, such as chrysanthemums, etc., and where only a limited amount of flowers are required at one time this can very readily be managed by taking the desired number in at intervals of say ten or twelve days apart, this will keep up a fairly steady supply. For the very earliest Mrs. John Laing, Magna Charta, Anna de Diesbach, and General Jacqueminot are still the best; for the next Ulrich Brunner can safely be added, and for later crops Madame Gabriel Luizet, Baroness Rothschild, Merveille de Lyon, Mabel Morrison and some few others can be added. From now on most of these varieties will take from eleven to twelve weeks to get them in full bloom from the time they are placed in heat. When once they have started to grow never allow them to suffer from a check either from want of water or from sudden falling in the temperature. To get really fine flowers the plants must be well grown during the summer, carefully rested in the fall and protected in a cool house or similar structure as soon as bad weather sets in early in the season. The method for above treatment has been given several times in these columns.

Plants that have been forced early, if placed in a cool house as soon as through flowering, will with very little care bloom very finely if planted in the open ground as soon as all danger from frost is past. To many a florist doing a local trade these plants come in very useful for this purpose, and if the shoots which do not happen to bloom are made into cuttings, rooted, potted up and grown on liberally all summer they will make fine plants to bloom next winter, so that the stock can be continually renewed, and the plants sold or otherwise as desired after blooming.

Where the young stock of Teas for next season's supply has not been already provided for lose no time in getting the cuttings into the propagating house, choosing good, clean, healthy wood for this purpose and do not keep the temperature of the cutting bed too high, or weak growth will be the result.

JOHN N. MAY.

Among Chicago Growers.

EASTER POT PLANTS, ROSES, BULBS AND GENERAL STOCK.

Anybody interested in growing roses in pots will find many things of interest, and be able to gather much valuable information by paying a visit to the establishment of our veteran grower Mr. August Dressel. We mention roses in particular for the reason that Mr. Dressel for upwards of twenty years has made this his specialty, though large quantities of other pot stuff as well as cut flowers are grown here. Mr. Dressel has the reputation of producing pot roses second to none. This year, as usual, the stock is very fine and in much larger quantity is grown than ever before. We find half a dozen houses de-



PARTIAL VIEW OF MR. DORNER'S DISPLAY AT THE INDIANAPOLIS MEETING OF THE AMERICAN CARNATION SOCIETY LAST WEEK.

voted to growing these roses. A large part of them are intended for Easter, the balance for spring trade. The first lot consists of hybrids and Jacques. These are showing bud and are expected to be in full bloom at Easter. The selection of varieties is made with a view that in case all the plants can not be disposed of in pots the flowers can be sold when cut. The list is made up of such varieties as: Mme. Eugene Verdier, Paul Neyron, Mme. Gabriel Luizet, Baroness Rothschild, Merveille de Lyon, Marquise de Castellane, Mrs. John Laing, Ulrich Brunner, John Hopper, Gloire de Margottin and Anna de Diesbach.

In addition to the above there is also a batch of fine-looking La France finely budded. These plants had been flowering freely last summer and fall while growing planted out in benches, but finding that the outlook for a good winter cut was not very promising the plants were lifted and potted up.

American Beauty is treated in the same way. This rose flourished exceedingly well in the fall, producing a good cut of blooms, but later in the season did poorly, so bench after bench was lifted, the plants were cut back, potted up and after remaining in a cold house a few weeks, started up again, and we now find them in various stages of growth, which will make them fine salable pot plants.

For general spring trade, in addition to such varieties as above quoted, we see such other sorts as Clothilde Soupert, Hermosa, Mme. Plantier and a few mosses.

Most of the stock is imported every year from Europe. Last year's importation included a lot of Perles and La France which are intended only for propagation. Mr. D. thinks it a good plan to infuse new blood into his stock occasionally.

There are two large houses, or rather, sheds, which are built on purpose for storing this stock. Here the roses are carefully heeled in when received in the fall. These houses are piped sufficiently to keep out severe frost if necessary. It is here the roses are also kept after being potted until such a time as they may be wanted, when they are removed in such batches as may be required into other houses. As none of this stock is intended for earlier than Easter, none is forced in a high temperature, thus all make fine hardy plants.

Next to roses Mr. Dressell is also quite heavily into azaleas. There are two houses of these. Very few are desired for early flowering. The majority are intended for Easter and as this holiday comes very early this year, there will be little difficulty in keeping them back. When asked what varieties were in his opinion the best, Mr. D. replied with a broad smile: "Well, on the whole I would rather not answer your question. You see if I should give you a list of what I might consider desirable sorts, and also point out others of less merit, or even worthless kinds, you might wonder how I, who ought to know just a little about azaleas, having imported and grown them for more than twenty years, should be such a blankety blank fool as to grow a number of such varieties, as are least desirable. Well, the fact of the matter is that it matters but little what sorts you may order. Those fellows on the other side of the salt pond will send you just such kinds as may happen to be plentiful with them. If you should remonstrate with them, they will tell you with that suave and gentlemanly manner peculiarly their own, 'Why, my dear sir, we are substituting sorts that are far more valuable than the ones you ordered. These sorts are quite the rage here in Europe, you can't afford to be behind the times. It is not your money we are after but we are looking after your own interests. If your people don't appreciate a good thing when they see it, you must educate them up to it.' Oh a fine lot of missionaries they are but I am such an old heathen that I have not been converted yet to their way of thinking. I think," adds Mr. D. with a merry twinkle in his eye, "I shall teach my dog a new trick. I bet he'll know the meaning of 'Azalea' next summer."

There are several houses of callas and Harrisii in pots, also for Easter trade, besides large batches of Spiræa Japonica and Deutzia gracilis.

Staphylea colchica is a new thing with us. We have never seen it forced here before. There is but one plant of it in bloom but it is a beautiful thing. This shrub in habit resembles the lilac and can be forced just as easily. The flower trusses also resemble lilac somewhat but the florets are larger, white with light yellow throat. We counted a dozen sprays on the plant, the size of lilacs we generally import. This ought to find a good market, but can not be sold cheap, as the plant is quite expensive.

A range of houses is also devoted to cut flowers. Prominent among these are several which are devoted to Jacques and hybrids. None are in bloom yet but all are doing well. One house of Jacques in particular caught our attention. The stock is grown in solid beds. The canes, sharply tied down to the ground, broke so evenly that not a vacant spot the size of a dollar can be found on the bed, and every lead is set with bud. The growth too is so remarkably even that apparently there is not an inch difference in length. "I had quite an experience with this house," remarks Mr. Dressell, "you see I have tried in various years to bring in a lot of Jacques for Christmas but never succeeded. I had about given up trying, still as this house ripened up early last fall, and the canes were exceptionally strong, I was tempted to try it again. Well, it didn't take me very long to find out that failure was inevitable. The plants broke unevenly, the growth was weak, so I concluded to call a halt. I gradually withdrew the heat and let the house freeze up again. Quite a risky experiment, you will say. Perhaps. But there you have the result.

In teas there is a good house of Meteors. This rose has always been grown successfully here. The house is not kept as warm as most growers would advocate; 65° is the mean temperature. Mr. D. thinks that syringing with hot water is very beneficial to this variety. The water used is almost scalding hot but the plants certainly thrive under this treatment."

Mr. S. Pearce owns and operates the

old original establishment of Mr. Dressell on Clybourn Ave. The place has been a landmark to old florists for many years, but little remains to remind us of olden times. The place has gradually been rebuilt in a modern way and the old brick flue has given way to the steam and hot water boiler.

Here too we find a good stock of pot roses for Easter and spring trade. Also a large and very fine lot of azaleas. Part of this stock is farther advanced and quite a number of plants are finely in bloom. No large plants are imported since there is little or no demand for large specimens. "Plants that retail for from $2 to $3 each are the best sizes to grow," remarks Mr. Pearce. "I have tried more expensive ones but found no sale for them."

A fine lot of Harrisii in 5-inch pots will make ideal plants for the Easter trade. The plants are grown stocky, of just the right height, and well furnished with foliage from the pot up.

We note also a fine batch of Dutch hyacinths with strong blooms.

Mr. Jurgens is one of the boys who wishes he hadn't. But since he is long on bulbs he tries to make the best of it. Bulbous stuff has been Mr. Jurgens' specialty for a number of years. He was the first in our city who grew lily of the valley in summer from cold storage pips. Last year he lost a good many thousand pips through carelessness of warehouse men, so this year Mr. J. has built himself an ice vault and will care for his stock himself. A batch of valley now in bloom is very fine. Tulips on the other hand are rather disappointing. His stock forces badly this year. The bulbs, though of extra large size, come very uneven and show many weak and crippled flowers. Yellow Prince is the best and we note some very fine blooms. Tournesols are just coming in now but are not at their best yet. Some of the later showy varieties are now brought in for forcing, and we expect to see some fine tulips shortly.

Geo. Klehm is keeping the boys guessing again this winter. How does he do it? is the conundrum propounded. Well we must confess that we don't know, but there is not the least doubt that George does. At any rate he gets there. We refer to his La Reine tulips, or Queen Victoria as some call it. It takes an expert to tell though whether it be La Reine or some other pink sort. It is of course no trick at all to produce this variety at this time of year at least, with more or less of a pink tinge, but in his flowers it is not a question of a mere shade of pink, it is so pronounced, so deep and rich, diffused all over the flowers, as to render it a quite distinct pink variety. And it is not alone the color, but the flowers are fully one-third larger than those from the same stock as grown elsewhere. And then the shape of the bloom even is changed, the flowers being considerable longer and more pointed at top. There is no question of its being the true La Reine. We positively know the stock to be imported from a well known European house that is sending the same kind of bulbs all over this country and yet so far as we know none of them have ever been grown as these are. Flint Kennicott advances an idea, which might be looked into by some of the interested brethren. He reasons thus. You know that George makes several hogsheads of wine every year. Now you know that if you moisten your system repeatedly with grape juice you will produce a fine color in your face. Why shouldn't it do the same to a tulip? H.



A Nematode Disease of the Carnation.

BY PROF. WM. TRELEASE.

[*Read before the American Carnation Society at Indianapolis, Feb. 21, 1894.*]

It seems as though in proportion to the importance attached to a cultivated plant the number and variety of its diseases increase. The excellent papers by Professor Atkinson* and Professor Halsted† on the diseases of the carnation, read before the American Carnation Society, show that they are more numerous than most persons would have supposed, and yet it is probable that these papers are far from exhausting the subject. At the January meeting of the St. Louis Florists' Club, in the course of a discussion on the carnation and the difficulties of growing it Mr. A. G. Fehr of Belleville, Ill., stated that the dying on one side of the plant which he and other members of the club had found frequent and destructive about St. Louis was accompanied, so far as his observation went, by the occurrence of galls on the roots. This was so suggestive of the work of the root nematode as to prompt a request for specimens, that the subject might be given examination, and I have to thank Mr. Fehr for some excellent specimens showing the appearance of the affected plants and the galls on their roots.

It is stated that the disease manifests itself by a browning and shriveling of the tissues, usually of one side of the plant, progressing from below upward, and resulting in the destruction of the plant. So far as can be seen there is no local cause for this effect. At the base of such plants, however, in Mr. Fehr's experience, small irregular galls, varying from the thickness of the smaller roots up to an eighth or three-sixteenths of an inch in diameter, are always to be found on the roots, usually on thin roots or those of medium thickness. In the specimens sent for examination these galls present the appearance of the healthy root so far as color and surface are concerned. They are of a yellowish white color, but they are easily recognizable, even when very small, from the abrupt swelling which they represent in the root. As they become older they are quite irregular and covered with little nodules. Even the smaller ones are likely to present a certain irregularity of surface, with indication of the early formation of such nodules. On some of the older galls these nodules are found to be replaced by cavities surrounded by a thin, ragged margin and a few others are of an orange color, different from that of the rest of the root, and evidently margined by a thin membrane derived from the root.

One of these nodules, picked out from a young gall by the aid of a needle which is worked in behind it and placed in a drop of water under the microscope, is seen to have a peculiar white color, much clearer than that of the root. In the older galls, where the nodules have not been destroyed, when they are removed in the



A NEMATODE DISEASE OF THE CARNATION (HETERODERA RADICICOLA).

*Printed, with numerous illustrations, in the AMERICAN FLORIST, Feb. 23, 1893, pages 720-728, with errata at page 852.

†Printed, with illustrations, in the AMERICAN FLORIST for Feb. 23, 1893, pages 731-731.



Scale
6 inches.

CARNATION THE STUART AS SHOWN AT THE INDIANAPOLIS MEETING.

same way, they present very much the same appearance, except that their color is an orange yellow and they are generally quite opaque. These nodules represent the females of the root nematode (*Heterodera radicicola*), which is the cause of the gall formation on the roots. Within these females, which occur at all depths in the root, from the center to the surface, from which they may even partly protrude, are to be found eggs measuring about .04 mm. by .110 mm. in all stages of segmentation up to the formation of the larval worm, which lies coiled within the egg membrane and other larvæ which have already hatched and lie free within the mother. The characteristic feature of this worm is to be found in the curious metamorphosis of the old female into a quiescent, cyst-like body and her slight resemblance to the male, which after a short time resumes its original activity and then more nearly agrees with the larva and with other nematodes. Migrating from the old cysts from which they have escaped, the young make their way into other roots or other parts of the same root, attacking the young and tender portions, where they give rise to galls similar to those in which they were themselves born.

So far as I know this Heterodera was first noted as occurring in North America by the writer, in the *Country Gentleman* for 1885, when it was reported as causing galls on the roots of the clematis. It has long been known in Europe, however, and in South America, and is the cause of serious diseases in a considerable number of cultivated plants, among others the coffee. A closely related, if separable, species is also destructive to the sugar beet in Europe. Within the last few years the root nematode has been made the subject of several important studies in this country, notably a practical, but somewhat erroneous article, embodying the results of field work rather than critical laboratory work, by Neal*, and a very careful paper by Professor Atkinson†, giving a thorough account of the structure and transformations of the creature, and embodying a partial bibliography of the subject and including a list of thirty-six species of plants on which the worm is known to live in Alabama.

The gall disease caused by this nematode is one of the most difficult to control. For open-air cultivation there is hardly any precaution that will enable one to escape the disease, but by rotating the carnation with other plants which are known not to be infested by the nematode it is possible after a period of years to free the soil which has become charged with them. Until this is done replanting carnations is likely simply to invite further attacks. Keeping down weeds and worthless plants is also very desirable, for we have here one of the best illustrations of the indirect harm that weeds may do by serving as nurses for the parasites of important cultivated plants. Compost is also pointed out by Professor Atkinson as being a source of danger, if it contains roots affected by the nematode, but on the authority of Kuhn he states that this danger may be avoided by placing unslacked lime in layers with the refuse of infected plants used in making the compost. It might be well to note here that Mr. Fehr stated during the discussion which prompted this investigation that he first observed the disease at his own place in some carnations that had been rather heavily fertilized with raw hen manure, which may perhaps have introduced them, although it is by no means clear how this could have been.

Within the greenhouse the problem is a much simpler one, and there seems no reason why this nematode disease should ever be particularly troublesome there if care is taken to propagate from sound stock, since sterilization of the soil by heat will be quite effective in preventing their introduction through either earth or compost. In the AMERICAN FLORIST for September 28, 1893, p. 171, is described a sterilizing vat used by Mr. W. N. Rudd of Mount Greenwood, Ill., for sterilizing all earth used in the extensive greenhouses under his care, the sterilization being effected by steam from the heating boilers carried by a suitable system of pipes through the tank in which the earth is placed, and heated up to the point of the destruction of all vegetable and animal life.

The accompanying figures show the base of a plant with root galls, natural size, a fragment of root with several galls, enlarged two diameters, a free nematode, the tail of a second and three eggs, two of them in process of segmentation, all enlarged 200 diameters.

On the occasion of the presentation of the foregoing notes to the Florists' Club of St. Louis at its February meeting Mr. F. J. Fillmore placed in my hands specimens from his carnation house, illustrating the dying back as he has observed it. These specimens were quite free from galls, but were suffering from the bacteria disease described in the papers above referred to, from which it may be inferred that under the head of dying back the ordinary cultivator may include at least these two very different diseases. Mr. Robert F. Tesson tells me that for the nematode galls of rose roots * freely watering the plants is helpful.

*Department of Agriculture, Division of Entomology, Bulletin No. 20, Washington, 1889.

†Bulletin No. 9 (Science Contributions, Vol. 1, No. 1) of the Agricultural Experiment Station at Auburn, Alabama, December, 1889.

*Halsted, New Jersey Exper. Sta., report for 1892, p. 381.

Carbolic Acid for Carnation Rust.

Among the different remedies for carnation rust mentioned in the AMERICAN FLORIST we have not noticed anyone as using carbolic acid as a preventive. We have used the acid this winter and have found it quite as effective as the copper solutions, and it is much more quickly prepared and applied. We use about three teaspoonfuls to a bucket of water and apply it with a syringe.

Galion, O. J. A. TRACHT & SON.

Foreign Notes.

A correspondent of the *London Garden* recently makes note of carnation Tidal Wave, which he had received from a friend in Canada. He particularly commends it for its good habit, freedom of bloom, and well-formed, non-bursting flowers.

A distinct new hybrid cypripedium, recently certificated at Manchester is C. Fairieano-Lawrenceanum. It is a cross between the two varieties from which it derives its compound name. The shape is suggestive of Fairieanum, with a dorsal sepal like Lawrenceanum; colors purple, bronze, green and white.

One of the most remarkable orchid hybrids ever raised is a cross between Lælia elegans and Sophronitis grandiflora. The plant is small, neat in growth, and bearing at the apex of the pseudo-bulb a well-shaped flower of brilliant carmine-rose with a slight tint of orange; the lip is deep crimson with a suffusion of orange in the throat. The plant has been named Sophro-Cattleya Veitchii.

A highly ornamental new musa is M. annaatiaca, distinguished by its brilliant orange bracts and flowers. It belongs to the non-edible section, and is closely allied to M. coccinea. The leaves are bright green, 2½ to 3 feet long; spike dense, under one foot long, bracts and calyx bright yellow. It is a native of Upper Assam, and has been flowered for the first time in cultivation at Hanover.

A comparatively new palm, very distinct and ornamental, is Phopoloblaste hexandra. When young it is as graceful and serviceable as Cocos Weddelliana, and should be valuable for decorative purposes.

Seasonable Hints.

The show pelargoniums that you have been keeping cool and rather dry for the past two or three months will now begin to feel the increased rays of the sun, and show signs of making a more active growth. Now is the time to shift them from a 4-inch pot, in which they have been wintered and be given a 5-or 6 inch, according to the size of the plant. If any of them have made a growth sufficient to give a good strong cutting without robbing the plant too much you can increase your stock, and the cuttings taken off will make good plants, either for market or your own supply of that variety. Remember pelargoniums want a good firm soil. When in their flowering pots they should at least be given a crock and piece of green moss, for drainage. They must at all times be in a house where constant fumigating is going on, for no plant is a greater favorite with green fly than these.

Don't throw away your pan or flat of canna seed because only a few have come and you think the rest of the seed is useless. Pot off all those a few inches high, but keep the seed pan warm and moist and they will continue to come up for months.

You should endeavor to put in the cutting bed just now as large a batch of coleus and achyranthus cuttings as possible, for from these cuttings you will get your fine large 4-inch pot plants for vases, veranda boxes, etc. Much later than this date will do for the bedding plant size, but for good big plants it is time to have them propagated.

We are having very changeable weather and no doubt will have, and as the sun gets more powerful look out for your pansy frames. If frozen tight all right, but on all days when the glass is not covered with snow and the thermometer goes above the freezing point, have the sashes raised a few inches, or they will get a premature start and suffer from severe freezing, which we are bound yet to have.

If any—or too many of your azaleas—show that they are coming into bloom too early for Easter don't forget that Azalea indica will stand a very low temperature, that is anything above freezing. If you have such a place you can retard them several weeks, and not the slightest harm will be done. Don't trust that you will get all your lilies in at Easter without a great amount of maneuvering. They will not be all in at the right time, even under the same conditions, and therefore continual watching, changing round, and good judgment must be exercised.

A crop of lilly of the valley is very desirable at Easter, and unless you have a very strong bottom heat you have no time to spare. If your sand has a temperature of 75° and the top heat 55 to 60° you can allow almost thirty days. If it should be fully developed a few days ahead of the date wanted, none the worse, for it greatly improves when cut and placed in water in a cool place for a day or two.

I intended a week earlier than this to give you the dates that my experience has taught me to bring in the different varieties of tulips, hyacinths, etc., for Easter. It is such a movable date that no definite time will answer for every year. Eighteen to twenty days is time enough for such early tulips as Yellow Prince, La Reine, Vermilion Brilliant, Kaiserkroon and in fact any of the early single varieties, and plenty of time for Narcissus Von Sion and Trumpet Major. The double forcing tulips Tournesol, Murillo, Rex Rubrorum, etc., should have had twenty-eight to thirty days to force easily, and I trust you have those in before you read these lines. Dutch hyacinths in pots will require no more than twenty days. Don't give the tulips a bright house and low temperature or they won't be in, and when they are in flower under those conditions it is yet so early in the season that the stems would be too short. A night temperature of 60° and a slight shade is what they want. Let me remind you that for several seasons past tulips have not gone off at Easter as they did some years ago. Many other flowers are preferred at that holiday. Therefor don't force too many. In this latitude after the 25th of March there will be six or seven weeks elapse before there is any spring flowers from outside. As the sun gets higher there is a natural demand for spring flowers, and they bring just as good a price as at Easter.

Don't neglect just now to put in a large batch of cuttings of the double sweet alyssum. It is one of the few white flowering plants we have for baskets, vases, etc., and is indispensable. A mild hotbed is the place to finish them off after you get them into a 3-inch pot. There are few more valuable plants for vases than the several varieties of achyranthus, but large plants are needed, and as they grow much slower and more compact than coleus they should be propagated in quantity at once.

You may have occasion at this crowded time to place lilies, azaleas and other Easter plants on beds of soil; lots of moving has to be done and all sorts of places utilized to get your crops in just right. You all know the ill effects of standing a pot (say a 5 or 6-inch) on soil. The worms in the bed will go for the pot, and drainage is likely to be destroyed. To prevent this and do no harm to either plant or soil cut up some tarred roofing paper into the desired size. The plant will lift clean off at any time and the worms will keep a respectful distance.

WM. SCOTT.



Scale
6 inches.

CARNATION HELEN KELLER AS SHOWN AT THE INDIANAPOLIS MEETING.

Philadelphia.

The February meeting of the Pennsylvania Horticultural Society was quite well attended and every one present seemed greatly interested in the proceedings. That the hall should be rebuilt on its present site is now the settled conviction of the workers of the society, and resolutions offered by Thos. Cartledge requesting the trustees to erect the hall as soon as possible were passed unanimously, and a committee of conference was appointed to wait on them and urge the importance of pushing the work forward as rapidly as possible. In speaking to the resolutions Mr. Cartledge said that he had no doubt that if the matter was properly placed before the members of the society, of which there were now something near a thousand, consisting of many of the wealthiest and most influential people of the city, there would be very little difficulty in raising the necessary funds.

Increasing the membership was suggested as one of the best plans, as it was thought that out of such a large city as Philadelphia the membership could be increased many times if the proper effort



Scale 6 inches.

CARNATION UNCLE JOHN AS SHOWN AT THE INDIANAPOLIS MEETING.



Scale 6 inches.

CARNATION GOLDFINCH AS SHOWN AT THE INDIANAPOLIS MEETING.

was made, particularly could life members be obtained and this would help to increase the building fund very materially. Mr. Battles believed in the membership plan as a great aid; get new blood into the society, keep it up to date, make it progressive, etc., were his ideas and acting on this line he sent to the secretary's desk seven applications for membership which he had secured almost without effort. Others spoke in a like strain and Mr. Craig for the trustees thought that the committee would find them ready and willing to co-operate with the society and consider any feasible plan looking to rebuilding the hall. It was a question of funds with them and they had not seen their way clear to proceed in the matter as with the $33,000 now on hand, insurance money, it would take about $35,000 to $40,000 additional to erect such a building as would meet the requirements of the society and be a source of revenue, instead of an additional burden. John Westcott for the Florists' Club said they would give $1,000 to the building fund.

The schedule for next fall's chrysanthemum show was adopted. The exhibition will be held November 6 to 10th and the only place available being the First Regiment Armory it was decided to secure this building for the show.

One of the most interesting and instructive papers the society has ever had prepared was now read by Mr. Joseph Meehan, the subject being "Trees for city use." It was listened to with great attention and deservedly applauded.

In the discussion which followed Robt. Craig said that he saw no more reason why property owners should plant and care for street trees than they should lay their own sewers, gas pipe or pavements. They should be controlled alike by the city. He spoke of the results accomplished by the commission which has charge of the street trees in Washington, D. C., and suggested that an ordinance should be prepared and offered to councils having this object in view, and on his motion a committee was appointed to draft an ordinance to be brought before the city councils looking to the appointment of a tree commission or other method to effect the desired end. The committee consists of Robt. Craig, Thos. Meehan and Edwin Lonsdale. Mr. Meehan said that if the city trees were to be under the charge of a commission he would perhaps suggest other varieties than those mentioned. In answer to a question as to why he had not mentioned the elm he said that it was because they were so liable to attacks of insects in the built up parts of the cities; in the suburbs they would do all right.

The weather for the past few days has been very cold, the thermometer registering some 25 degrees of frost, the coldest weather experienced this winter.

Roses, particularly the large teas, are now very fine. Mermets and Brides are at their best. Brunners are scarce. Smith & Whitely have some very fine stock and Anderson and La Roche & Stahl are sending in a few. G. Anderson has two large houses which will be in before long. The price is now $5 a doz. Other large roses are also scarce, the supply not being equal to the demand. Prices are about the same as last week.

Carnations are beautiful but seem tired and soon go to sleep. What is the matter with this flower? It does not keep nearly as well as before the holidays. Perfectly fresh flowers, or those guaranteed to be so, will scarcely last two days; in fact those not sold the day received are scarcely salable the next. We see no remedy or thoughts of one in the account of the proceedings of the society at Indianapolis. Mr. Cartledge of Pennock Bros. says that in a box outside their greenhouse on a roof, carnations put in vases of water will keep for a week, while portions of the same stock if placed in the cellar or refrigerator will go to sleep the second day.

A very exciting game of ten pins was played at the club alleys last Thursday evening. There was but a difference of two pins at the end of the match. Messrs. Craig, McLean, Brown and Kennedy, all made over 500 in the three games, G.

Craig's score being 553. Brown captained the winning team. K.

Chicago.

Trade this week has been fairly active. In the retail line business is fully as good as might be expected in the middle of Lent. There are no large weddings or receptions, but the boys are kept busy with dinners and luncheon decorations, and transient trade also is picking up a little. Although business may not be quite up to former seasons, still there is a more cheerful view taken by most of the dealers.

Commission men report an increased shipping demand. Orders of this kind were unusually heavy and greatly helped to clear up the stock.

Roses in most all classes are plentiful and of improved quality; there is no apparent glut of any one variety. In large roses there is still a decided shortage; Beauties are scarce with brisk demand, very few long stemmed flowers are noted. Good long stemmed stock sells readily at $3 a dozen, with a few extra choice at $4, but the great bulk is short stuff selling at from 50 cents to $1. Hybrids are still scarce. A few good Brunners are seen in the market which are mostly shipped in from outside points. The flowers are not up to the standard in size but are of good form and color and with fine long stems. They bring from $3 to $4 a dozen for the best. Some Anna de Diesbach are also noted but only second grade flowers, which bring $2. Jacques are improving. Most of the flowers shipped in now are from plants grown in solid beds and are much firmer and of better quality than those noted before. These bring $1.50. Bridesmaid finds a ready market at $8, but few flowers are offered as most of the growers, who have a stock of this variety are using all the available wood for cuttings. Mermets are coming in very fine and of uniformly good color that is rarely seen in our market. Brides too are good, but La France is hardly up to the standard though here and there a good lot may be noted; $4 is the ruling price for good stock. Woottons go at $3 to $4, and Perles, Gontiers and Niphetos at $2 to $3. Meteor is of much better color but rather small; good stock finds a ready sale at from $5 to $6.

Carnations are plenty and of fairly good quality. Very few of the common sorts go over $1. In fancy, Daybreak sells at $1.50; a few extra good bring $2; Scott about the same.

Bulb stuff of almost every variety is very slow. Daffodils are a perfect drug and can hardly be given away. In Dutch hyacinths only the light lavender shades are in fair demand. Valley can be bought of very good quality at $1.50 to $2 Romans are about the same. Tulips are very slow. Pink grown La Reine and Kaiser Kroon are the only two varieties called for. The former brings $5 and the latter $4. Most of the other sorts go at $3 and less.

Violets still hold their own although the stock that is offered at present is not of very good color. The supply is about equal to the demand. Quotation on extra choice (very scarce) is $1.50, the bulk of the stock selling at $1 to $1.25.

Harrisii are not quite as plenty and have moved up a notch. Some extra good bring $8 though most of the stock is disposed of at from $5 to $6. Callas are plenty and in little or no demand.

There is some very fine mignonette sent in now, mostly of giant varieties and Machet. Good spikes of these flowers find a ready sale at $2.50.

Orchids keep coming in quite freely. There seems to be no trouble to dispose of them, except cypripediums, these last are very slow. Cattleyas, mostly of the Trianæ species bring from 40 to 50 cents each. Some forms of odontoglossum and dendrobium also sell well.

In greens there is little change. Smilax is extremely slow at 8 to 10. Asparagus plumosus is in fair demand. Adiantum is in good supply at $1 to $1.25.

H. Schiller has bought out the retail establishment of T. J. Corbrey at 897 W. Madison street.

Boston.

A slight drop in the price of roses is the only noticeable feature of the cut flower market. Scanty production rather than large demand is responsible for the fact that there is as yet no troublesome overstock of anything excepting perhaps Harrisii lilies and smilax. A suggestion of the approach of Easter is seen in the few candidum lilies beginning to appear, the bunches of pretty English primroses and the genistas which decorate the florists' windows. Otherwise stock is unchanged in character, and prices hold about the same as they were before Ash Wednesday put its damper upon social gayeties. Violets are being worn more generally. They seem to be almost exclusively the favorites for street wear and an enormous quantity of them is disposed of daily with gratifying regularity.

On Saturday, Feb. 24, Mr. Kenneth Finlayson gardener for C. G. Weld, delivered an essay on cinerarias and calceolarias at Horticultural Hall. The weather was extremely cold, the worst day of the season to bring in plants, but Mr. Finlayson had a row of bright cinerarias on the front of the platform with which to illustrate his remarks, and on the exhibition tables was a fine collection of dendrobium blooms, cattleyas, etc., from George McWilliam and various cut flowers from other exhibitors.

Mr. E. S. Converse's estate at Malden is well known for its attractive grounds and fine bedding in the summer. Mr. D. F. Roy is the gardener. At present he has a brilliant display of cinerarias of a very fine strain in one of the houses, and a quantity of healthy calceolarias give promise of a good show of these favorite plants in due time. Palm house, graperies and peach houses all look well and the work of preparing for the thousands of bedding plants required for spring planting has already begun.

Peter Fisher & Co.'s new crimson carnation Jacqueminot has secured the approval of the buyers here and bids fair to become a leading variety in the market. Mr. Fisher reports the advance sale of rooted cuttings as very large.

Mr. John R. Fotheringham, representing Lord & Burnham, has been sojourning at the Hub for a few days.

New York.

Business has been intermittent during the past week. Some days fairly good, others extremely dull. The Arion Ball and Valentine's Day in the previous week had used up stock on hand and this fact together with the continued dark weather prevented any serious overstock at the beginning of the week. The funeral of Keppler, of *Puck*, furnished a large amount of work for some of the retail florists and called for a large quantity of white flowers. Washington's Birthday was unusually dull, very little special demand on account of the holiday being apparent.

There are a great many poor roses coming to the market. Of American Beauty this is especially true. The proportion of deformed, discolored and short stemmed buds of this variety is very large and number one blooms are few and far between with most of the growers. Ernst Asmus is sending in some good Brunners and from Julius Roehrs are coming Brunners, Magnas and Luizets which are as fine as have ever been seen at this season of the year. A noticable feature of the rose trade this year is the decreased demand for, and the very small quantity grown, of the smaller varieties of tea roses, such as Bon Silene, Niphetos and Gontier. This class of buds seems to have no place in the market to-day.

The carnation growers in this vicinity seem much pleased at the selection of one of their number, Mr. Eugene Dailledouze, as President of the Carnation Society and there is no doubt that he will have the pleasure of leading a very large delegation from this vicinity to the Boston meeting next year.

August Rolker & Sons have succeeded to the business of Robert B. Young & Co. as plant auctioneers at 205 Greenwich St. Mr. Young has been contemplating withdrawing from business for some time on account of continued ill health.

Mr. Wm. Tricker, the well known grower of aquatic plants, has removed from Dongan Hills, New York, to Clifton, N. J., where he has made an alliance with Mr. S. C. Nash under the name of Wm. Tricker & Co. Fine ponds are already located and they propose erecting several houses specially adapted to the growing of aquatics.

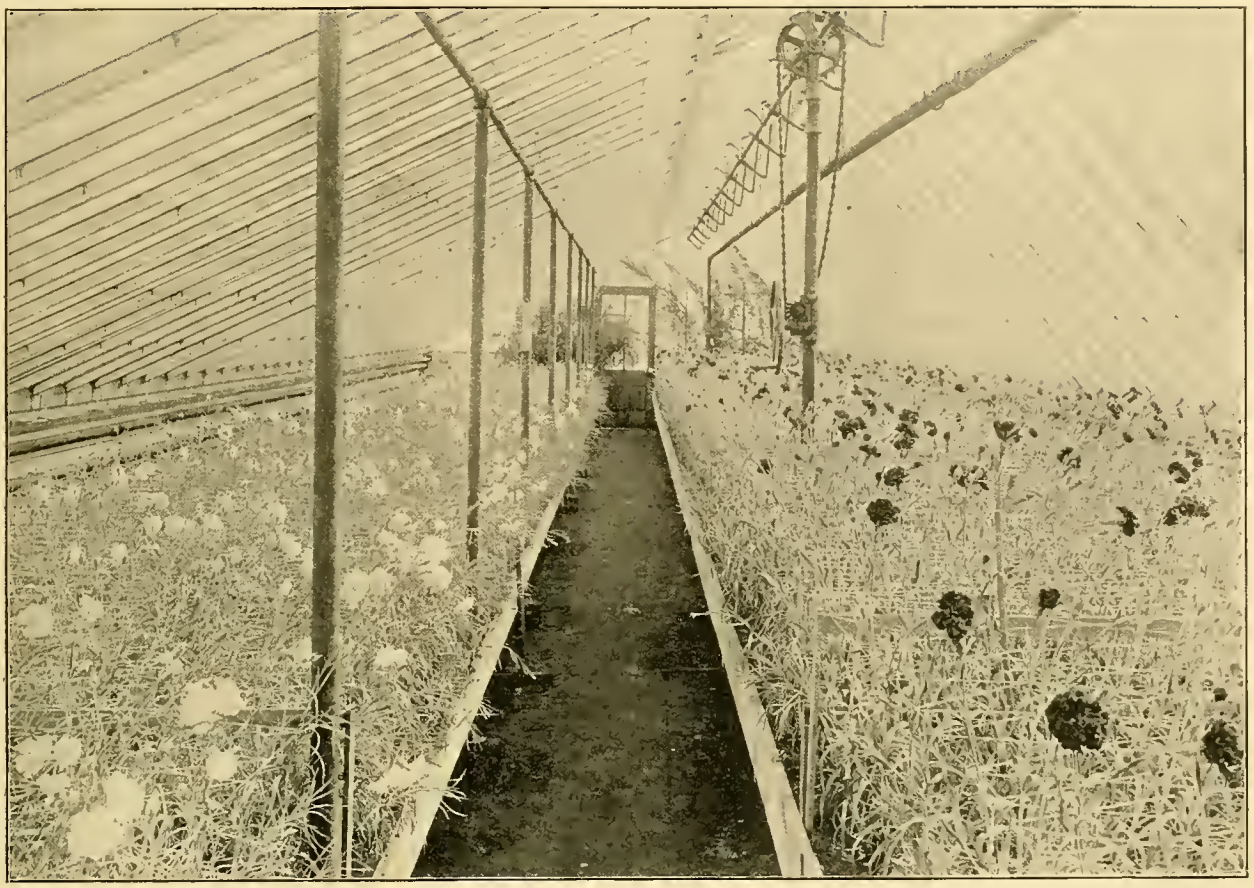
The annual spring exhibition of the United States Nurseries will be held from Saturday, March 3rd, to Saturday, March 10th, inclusive. The public are invited and several extra trains will stop at Short Hills during the progress of the exhibition.

Chatterton Bros., florists, have moved from their former location at 5th Ave. and 42nd St., to a larger store on Columbus Ave. near 74th St.

Mr. E. V. Hallock sailed for Europe Wednesday, February 21st, on steamer Majestic.

Washington.

At the last state dinner of the season given by President and Mrs. Cleveland in honor of the Judiciary, the decorations were in scarlet and green. In the state dining room the table, which was in the shape of a Roman I as heretofore, was resplendent with scarlet tulips and asparagus. The centerpiece of scarlet tulips was about three feet in diameter and one foot high. At either side of this was placed oblong plats about four feet long of scarlet tulips on asparagus. Across either end of the table were arranged three round plats two feet through all of red tulips on a base of asparagus. Corsage bouquets of American Beauties were provided for each lady, and a bud of same was at the place of each gentleman. Near the transverse sections of the table were large cut glass bowls heaped with fresh strawberries, carrying out the scarlet effect. The chandeliers were festooned with smilax and the corners of the room were filled with palms and rubber plants. The mantels were banked with scarlet tulips. In the East Room the customary arrangements of palms and decorative plants were lighted by the introduction of tiny red, white and blue electric lights. In the triplet east window the arrangement of plants was surmounted by an electric star in the national colors. The two east mantels in the East



Uncle John, white. *The Stuart*, red.

VIEW IN ONE OF MR. F. DORNER'S CARNATION HOUSES, LAFAYETTE, IND.

Room were banked with hyacinths and Easter lilies with broad curtains of Asparagus plumosus hanging to the floor, the two west mantels being banked with plants. The large space above the entrance to the main corridor was filled with decorative plants, with electric lights in the Union colors. REYNOLDS.

OBITUARY.

JOHN ROSE.

John Rose, the well known florist of Cincinnati, died Feb. 12, of that dread disease consumption. For several years Mr. Rose was foreman for the late F. T. McFadden, whose greenhouses were widely known as the finest in the West, containing as they did one of the finest collections of orchids in America. Last spring Mr. Rose leased the establishment and since then, with the assistance of his foreman, Mr. James Allen, has successfully conducted it. As a grower Mr. Rose had no superiors and few equals. He was the first to grow the grand cyclamens that became celebrated in the trade. He was successful with every plant placed under his charge and seemed to be in perfect touch with all that is best and most beautiful in nature. He loved his plants with a mother's love and gave them a mother's care. At the exhibitions, where he entered, his name always stood high among the prize winners.

As a man he was fair and honest in all his dealings, and never refrained from speaking what he thought. He leaves a wife and three small children to mourn his loss.

John Rose was born in the county of Nairnshire, in Scotland, May 14, 1866. He served his time with his father, who was gardener to Sir George McPherson Grant, at Ballindallock Castle, Banffshire. He arrived in America in 1883 and worked at several places in Newport, also for Mr. David Allan for two and a half years at Mount Auburn, Boston, Mass. He was in charge of Siebrecht & Wadley's orchids for two years, after which he came to Cincinnati as foreman for the late F. T. McFadden.

Appropriate resolutions were passed at a special meeting of the Cin. Florists' Society, and a floral piece was sent to the funeral. E. G. G.

Catalogues Received.

John G. Gardner, Jobstown, N. J., grape vines; Geo. A. Weaver, Newport, R. I., seeds; L. Templin & Sons, Calla, O., plants and seeds; C. E. Allen, Brattleboro, Vt., seeds; E. H. Vick, Rochester, N. Y., seed potatoes; Griffith, Turner & Co., Baltimore, Md., seeds; A. N. Kinsman & Co., Austin, Minn., seeds and plants; Ellwanger & Barry, Rochester, N. Y., nursery stock and plants; M. B. Faxon, Saugus, Mass., seeds; A. Blanc & Co., Philadelphia, cacti; same, bulbs; W. Atlee Burpee & Co., Philadelphia, wholesale list seeds; Elm City Nursery Co., New Haven, Conn., ornamental nursery stock; W. L. Swan, Oyster Bay, N. Y., plants and seeds; Harrison H Given, Denver, Colo., plants and seeds; Pitcher & Manda, Short Hills, N. J., seeds and bulbs; same, plants; C. J. Spielman & Sons, Sassenheim, Holland, Dutch bulbs; L. Boehmer & Co., Yokohama, Japan, Japanese bulbs, plants and seeds; W. Pfitzer, Stuttgart, Germany, seeds and plants; Rogers Nursery Co., Moorestown, N. J., nursery stock; A. J. Colman & Co., Fly Creek, N. Y., seeds; Wm. Parry, Parry, N. J., nursery stock; Irvington Nursery, Irvington, Ind., nursery stock; Bush & Son & Meissner, Bushberg, Mo., grape vines; W. A. Manda, South Orange, N. J., seeds, plants and bulbs; F. W. Wrampelmeier, Louisville, Ky., plants and seeds; Livingston's Seed Store, Des Moines, Ia., seeds; Portland Seed Store, Portland, Oregon, seeds; Harkett's Floral Nursery, Dubuque, Ia., plants.

SAN FRANCISCO.—Duhem & Hoffman have dissolved.

FRESNO, CAL.—Long Bros. & Co., nurserymen, have dissolved.

OMAHA, NEB.—Mr. and Mrs. Arnold are rejoicing over the advent of a daughter.

PATERSON, N. J.—Mr. Henry McCrowe has been appointed superintendent of Public Parks in this city.

GREENSBURG, PA.—James H. Huber, of J. H. Huber & Son, died Feb. 16 of rheumatism of the heart, aged 56 years.

MOBILE, ALA.—The Mobile Chrysanthemum Club has been organized with Mrs. J. W. Black as president, and Miss Mollie Irwin as secretary.

NASHVILLE, TENN.—L. C. Lischy, for many years a well known florist, died Feb. 19, aged 81 years. Death was the result of a paralytic stroke received about two months ago.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—In New York or Philadelphia, Holland gardener. Good references from Germany. Address B C, care American Florist.

SITUATION WANTED—The 15th of March by a young man who is well experienced in roses, carnations, chrysanthemums. Address FLORIST, care Schneller, Newtown, L. I.

SITUATION WANTED—By Swede, to work in greenhouses; 2 years in this country; can speak and write fairly well. Good references from first-class places in Sweden and this country. AXLE CARLSON, Millbrook, N. Y.

SITUATION WANTED—By a young man as assistant on large private place; understands general greenhouse work, grapes, etc. Good references; has been 5 years in last place. Address FLORIST, Box 513, Asheville, N. C.

SITUATION WANTED—By first-class florist and gardener single, German; 18 years experience in all branches. Best of references. Would take full charge of private or commercial place. FRANK OTTO, 583 Lincoln Ave., Chicago.

SITUATION WANTED—Commercial or private place. Good references for character and experience. American, single, age 31; 8 years' experience. Object promotion, near Chicago preferred. Lock Box 215, Oval City, Stark Co., Ohio.

SITUATION WANTED—As gardener and florist in private place; Scotchman; 9 years' experience; 1 year in this country; steady, sober and honest. Good refences. Address WILLIAM ROBERTSON, care Charles Nullmeier, 67 Hughes St., Cincinnati, O.

SITUATION WANTED—By a practical florist and grower of cut flowers and plants; 12 years' experience in U. S. and Europe; competent to take full charge. Good reference. Northern part of Illinois preferred. State wages. Box 203, Fremont, Neb.

SITUATION WANTED—By gardener and florist; married, German, two children, on private place, east; 18 years' practical experience in greenhouses, graperies, roses and vegetables; accustomed to have full charge of large places. Best references. Address R L, box 885, New London, Conn.

WANTED—A good rose grower and propagator with knowledge of mushroom culture. State wages. Address CANADA, care of Am. Florist.

WANTED—A single man for palms and ferns; one that can be of occasional use in retail store. Address H. F. HALLE, 548 W. Madison St., Chicago.

WANTED—Gardener, single, who understands raising vegetables for market. Give references; state wages. MRS. T. SPEARMAN, Mt. Vernon, Ohio.

WANTED—To know of a growing town of 6,000 to 10,000 inhabitants where there is no florist. JOSEPH VOGT, 247 Fremont Ave., North, Minneapolis, Minn.

WANTED—Greenhouse assistant; young man with some experience and intelligence. State references and wages with board per month. Address Box 353, Middletown, N. Y.

WANTED—Gardener, single, who understands raising vegetables and fruits for market. Give references and state wages with board. Address P. O. Box 186, Mt. Pleasant, Iowa.

WANTED—Young practical florist with $1,200 capital wants to start in business within 25 miles of Boston. Address letters with full particulars, C K, 116 Charles St, Boston, Mass.

WANTED—A good worker and experienced grower of roses, carnations, chrysanthemums, and general stock of plants. Good State wages. Address ALFRED PHAUD, Crown Hill Cem., Indianapolis, Ind.

FOR SALE—One Kroeschell hot water boiler 4x12; 4 years in use. Also about 400 feet 4-inch pipe. ART FLORAL CO., 3011 Cottage Grove Ave., Chicago.

FOR SALE—Four greenhouses, well stocked, with very valuable piece of ground, reason for selling old age. Address WM. SPRINGBORN, Dubuque, Ia.

FOR RENT—At Riverside, Ill., greenhouses, boiler, pipes, all in running order. Rent cheap. Call or address PETER READEY, 1911 Ogden Ave., Chicago.

FOR SALE—$1,200 cash, balance easy terms. Two greenhouses, well stocked, business long established, spring trade good for half the investment. Address CENTRAL, Care of American Florist.

FOR SALE—A first-class retail flower business; established for 12 years; situated in the best business locality of the north side Chicago. Owner wishes to retire on account of ill health, and can prove the establishment a good paying one. Address V W, care American Florist, Chicago.

FOR SALE—Best opportunity to make money ever offered. A first-class florist establishment and the only one in one of the best college cities with over 6,000 wealthy people. Splendid cut flower trade all the year. Everything new, with big stock of plants for spring sale. Write for particulars at once. Don't miss this chance. J. J., care American Florist.

Catalogues Wanted.

Wholesale Lists of Plants Bulbs and Seeds.

EMIL LENDON, 147 4th St., Milwaukee, Wis.

FOR SALE—Four greenhouses, of about 4000 square ft. of glass, heated by hot water; about 150 sashes, about 1000 square feet of glass loose in boxes; 800 feet of 4-inch pipes, valves, etc. About 25,000 tuberose bulbs (Pearl). The greenhouses are filled with all kinds of the best selling pot plants to bed out in the spring. Stock in first-class order. Winton Place is a nice suburban residence of Cincinnati. The business is at the Spring Grove Cemetery—it's the largest and prettiest in the state. I am at the C. H. & D. and near the C. W. & B. R. R. station; also street car accommodation. No other florist around. Owner of place will give buyer a lease. Rent reasonable. Reason of selling is because I wish to build upon my own ground (a few miles west of here). Buyer can have possession of place at once. Will sell reasonable, for cash. Also large stock of violets. For particulars address H. SCHLACHTER, Winton Place, Ohio.

FOR EXCHANGE.

A modern apartment building in Hyde Park, Chicago, 40 buildings detached all or part, for a Greenhouse plant to be taken down and shipped or to run wherever located. If location suits, or for nursery stock an equity of $18,000, will assume some or pay difference in cash.

F. N. PERKINS, Kenton, Ohio.

Verbena Seed. Mammoth Strain.

Saved from the largest and best collection on the continent. For the last ten years we have shown our Verbenas at all the principal exhibitions here, and have never failed to take the first premium. Representatives of leading American seed houses who have seen our seed beds of Verbenas in bloom pronounce them the finest on the continent.

Fresh, ripe, hand-picked seed, per trade pkt. 25 cts.; ¼ oz. 50 cts.; ½ oz. 90 cts.; oz. $1.75.

GRAINGER BROS., Toronto, Canada.

A FEW HUNDRED STOCKY

APPLE GERANIUMS

$5 00 PER 100.

Clematis Crispa, strong roots.....$5.00 per 100.

H. STEINMETZ, Raleigh, N C

ALTERNANTHERA.

Strong, rooted cuttings, propagated last fall.

P. MAJOR, best red$6.00 per 1000
A. NANA, best yellow..... 5.00 per 1000

HEITE FLORAL CO, Kansas City, Mo.

SEEDS Rarest newest, cheapest Carnations, Picotees from 100 best named kinds 50c; 400 sorts $1; 1000 sorts $3, all pot grown. Greatest variety in Europe. Be astonished; get list, will pay you. No such value.

A. BROUNT, Crowboro, Sussex, England.

VERBENAS, MAMMOTH, perfectly clean, strong plants, $2 per 100. Transplanted Cuttings, $1.00 per 100. Rooted Cuttings, $6.00 per 1000. All to color. Cash.

W. B. WOODRUFF, Florist, Westfield, N. J.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER, QUEDLINBURG, GERMANY.

READY FOR BUSINESS

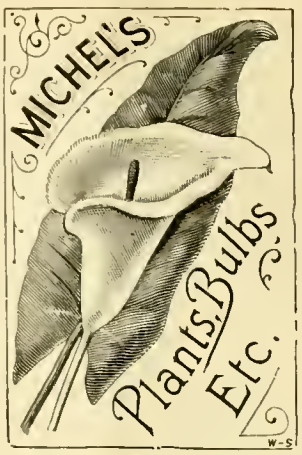
Make known your wants and we will be pleased to quote prices.

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W. A. MANDA,

The Universal Horticultural Establishment,

SOUTH ORANGE, N. J.



Write for Wholesale List.

MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

Mention American Florist.



GLADIOLUS BULBS

Seedlings of 1892, from choicest named varieties, Lemoine's and Gandavensis, 1 to 1½-inch, warranted to bloom this season, $9.00 per 1000.

Named vars and Seedlings mixed, 1½ to 2½-in. $10.00 per 1000. At least one-third of the above are whites and light. No cheap Brenchleyensis and common reds.

WM. FERGUSON, Groveland, Mass.

The Boskoop, Holland, Nursery Association

OFFERS AT SPECIAL PRICES

Roses, Azaleas, Rhododendrons, Clematis, Etc.

Address C. H. JOOSTEN, Agent, 3 Coenties Slip, NEW YORK.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

CANNA Florence Vaughan, Per 100 $25.00.

ALLA True Little Gem, Per 100 $10.00.

LOTHILDE Soupert Rose, Per 100, 2½ inch, $3 50

NEW YORK: 26 Barclay Street. VAUGHAN'S SEED STORE 146-148 W. Washington St., CHICAGO.

VERBENAS

Superbly colored large flowering sorts. Best varieties in cultivation. Ready now. Fine Healthy Plants in assortment. $2.50 per 100; $20 00 per 1000. Finely Rooted Cuttings, $1.00 per 100; $8 00 per 1000. If wanted later will book orders for future shipment up to May 1. We pack light and guarantee satisfaction.

F. WALKER & CO., 644 FOURTH AVE., LOUISVILLE, KY.

NEW PLANTS

OF STERLING MERIT.

ROSE MRS. W. C. WHITNEY.

CHRYSANTHEMUMS:

Yellow Queen, Achilles, Malmaison, Mayflower, Minerva and Titian,

and all other really good things in this line.

JOHN N. MAY,
SUMMIT, NEW JERSEY.

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100,000 Roses Ready Now

All sizes 2, 3 and 4 inch pots, best varieties. Also all kinds of Bedding Plants, Palms, &c. Will be pleased to receive a **List of Your Wants**, and quote **Lowest Figures.**

Wholesale Catalogue Mailed to Florists.

We have an immense stock in best of condition, and guarantee satisfaction and low prices. Address

NANZ & NEUNER,
LOUISVILLE, KY.

Forcing Roses.

A stock of the best varieties always on hand.

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Bridesmaid.

Young stock, fine and healthy, now ready, from healthy, cool grown stock, at $6 per 100; $50 per 1000.

W. A. KENNEDY, Lake Forest, Ill.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROOTED CUTTINGS.

Brides,	Cusins,
Bridesmaids,	Niphetos,
Meteors,	Perles,
Hostes,	Beauties,

Mermets, Testouts, La France.

☞Address for quotations

T. W. STEMMLER,
Villa Lorraioe Roseries, MADISON, N. J.

FORCING ROSES

VERY STRONG STOCK, well rooted, and especially adapted for pots, very best varieties of forcing roses, as: Capt. Christy, La France, Fisher Holmes, Van Houtte, Marie Baumann, Alfred Colomb, Ulrich Brunner fils, Grace Darling, Gloire de Dijon, Magna Charta, Gen. Jacqueminot, Baronne de Rothschild, Merveille de Lyon, etc., $40 per 1000 for cash, postpaid Hamburg excl. embalIng. **L. TIMM & CO.,**
Elmshorn, Holstein, Germany.



New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from $1 order).

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Engraver for Florists,
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YOUNG ROSE PLANTS

We offer the following very choice Plants in 2 1-2 in. pots.

	Per 100.		Per 100.
Am. Beauties,	$6 00	Mermets, -	$3 50
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Brides, - -	3 50	Papa Gontiers,	3 50
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The above stock is very strong and healthy, and propagated from selected wood. We raised the above to grow for ourselves, and it will give better satisfaction than stock which has been raised simply to sell.

CARNATIONS, ROOTED CUTTINGS.

Daybreak	per 1000 $15.00
Tidal Wave	" 10 00
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51 Wabash Avenue, **CHICAGO.**

Must be Sold. . . .

5,000,000 HARDY CUT FERNS.

Price to suit the times.

SPHAGNUM MOSS in quantity, 50 cents per bbl.

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4,000,000 EVERGREEN CUT FERNS

ESPECIALLY FOR FLORIST'S USE.

$1.25 PER THOUSAND FERNS.

IN LOTS OF 5000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

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Wild Smilax, Pines and Palmettos

FOR DECORATIONS
AT LOW FIGURES.

Low freight rates by steamer to New York, Boston, Philadelphia and Baltimore.

A. C. OELSCHIG,
SAVANNAH, GA.

Galax Leaves.

You cannot afford to be without them if you sell Cut Flowers and Decorate. Especially for Christmas. Big money in them. I sold 300,000 in 3 months last winter. $2.00 per 1000 by express. Sample 100 sent by mail on receipt of 50c.

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4010 Butler St., PITTSBURG, PA.
AGENT FOR HARLAN P. KELSEY.

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Are just what every sower needs. The merits of **Ferry's Seeds** form the foundation upon which has been built the largest seed business in the world. **Ferry's Seed Annual for 1894** contains the sum and substance of the latest farming knowledge. **Free** for the asking.

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The Annual Spring Exhibition will take place at their Nurseries

MARCH 3rd TO 10th INCLUSIVE.

Express trains from foot of Christopher or Barclay Streets.

DOUBLE AMERICAN PEARL

. . . TUBEROSES.

Highest quality and lowest prices.

Address **PITCHER & MANDA,**
UNITED STATES NURSERIES, SHORT HILLS, N. J.



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(JULY AND AUGUST.)

PALM SEEDS (from California and Australia).

TREE FERN STEMS.

FREESIAS. We will have a million of FREESIAS running from 7-16 to ¾ of an inch.

CALLAS. Dry roots in all sizes.

LIL. LONGIFLORUM.

CALIFORNIA SMALL BULBS.

Brodiæas, Calochortus, Fritillarias.

Advance Price List ready. Send for it. We want your orders now. Address

H. H. BERGER & CO.,
SAN FRANCISCO, CAL.

BULBS

Send List of What You Need.

WE CAN SAVE YOU MONEY.



A. BLANC & CO., Philadelphia, Pa.

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Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Our Annual Spring Number.

We shall issue our annual spring number March 22. In it we shall publish the first of a series of freely illustrated articles on the arrangement of flowers that will we believe be of very great interest. The articles will deal with the subject exhaustively and cover every detail, beginning with the proper care of the flowers after being cut, then taking up the subject of stemming, describing and illustrating each method, treating particularly on ways of accomplishing results with speed. The arrangement of the various simple designs most generally called for will then be taken up and then the different methods of treating the same subject will be freely illustrated by means of photographs of arrangements put together by the author specially for the purpose. With a given number of the same kind of flowers he will show the various effects that can be created with the same material. These articles will be intensely practical and will start with very elementary instructions, in response to numerous requests from our readers for such primary lessons.

In addition to this feature we will have our usual display of handsome illustrations of seasonable subjects and the title page will be a beautiful design by F. Schuyler Matthews.

Our special numbers need no introduction to advertisers and we may only add that there will be no increase in rates for this special spring number and that copy for advs. should reach us as early as possible and before March 17. A copy of this number will reach every florist in America.

WE HAVE in hand quite a number of communications that we have been unable to give space in the last two issues on account of pressure of other matter. Nearly all of them will appear next issue or the week after.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book.

WORK on the directory is being pushed rapidly along and we hope to have books by March 10.

J. B. DEAMUD & CO.

Wholesale Cut Flowers,

45 LAKE STREET.

Chicago, Ill., March 1st, *1894.*

TO CUT FLOWER TRADE,

Dear Sirs:—Owing to the shortness of stock we have been compelled to refuse a great many orders from time to time. We now wish to inform our many friends that we are cutting a very select stock of Roses, such as Brides, Mermets, La France, Albany, Woottons, Mme. Hoste, Perles and Beauties. *Remember that we are Headquarters for American Beauties; growing more than any other grower in the U. S.*

We are now able to supply the above in large quantities, and would be pleased to receive your orders.

Yours very truly,

J. B. DEAMUD & CO.

!!! WE OFFER STRONG, HEALTHY PLANTS OF THE ABOVE FROM 2-INCH POTS.

CORBREY & McKELLAR,

Wholesale and Commission Florists,

Phone Main 4508. **45 Lake Street, CHICAGO.**

We are prepared to fill your orders with First-Class Flowers. Give us a trial order.

FOR DECORATING, NOTHING CAN EQUAL

ASPARAGUS PLUMOSUS NANUS.

CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.

Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.

W. H. ELLIOTT, Brighton, Mass.

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SUCCESSOR TO

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Successors to WM. J. STEWART,

CUT FLOWERS

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67 Bromfield St., BOSTON, MASS.

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4TH AND WALNUT STREETS,

Cincinnati, O.

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COMMISSION • FLORIST,

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FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS. Lists, Terms, &c. on application.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

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C. A. KUEHN,

(Successor to ELLISON & KUEHN),

WHOLESALE

FLORIST,

1122 PINE STREET,

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A complete line of Wire Designs.

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WHOLESALE FLORIST
79 Lake Street, CHICAGO.
WHOLESALE CUT FLOWERS.
SEEDS, BULBS AND ALL FLORISTS' SUPPLIES.
Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H. SUNDMACHER, Sec'y and Treas.
Kennicott Bros. Co.
34 & 36 RANDOLPH STREET,
CHICAGO.
WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.
WIRE WORK A SPECIALTY.
General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
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Agent for finest grades Waxed and Tissue Papers.

REINBERG BROS.
WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
51 WABASH AVENUE,
Telephone 4937. CHICAGO.

MONS. OLSEN. HORACE R. HUGRES.
Olsen & Hughes,
WHOLESALE CUT FLOWERS,
66 Wabash Ave., CHICAGO.
Tel. Main 4786. Consignments Solicited.

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Wholesale Florist,
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Send for quotations on Choice Stock.

WHOLESALE FLORISTS
JOBBERS IN FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
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HORTICULTURAL AUCTIONEERS.

500 SMILAX,
at 10 cents per string.
DAVIS BROS., Morrison, Ill.

Wholesale Markets.

Cut Flowers.

NEW YORK, Feb. 26.

Roses, Perle	2.00@ 4.00
" Mermet, Bride	3.00@ 6.00
" Cusin, Watteville	3.00@ 6.00
" Hoste	3.00@ 6.00
" La France	6.00@12.00
" Meteor	4.00@10.00
" Bridesmaid	5.00@ 8.00
" Beauty	5.00@50.00
" Hybrids	15.00@35.00
Carnations	.75@ 3.00
Mignonette	2.00@ 8.00
Hyacinths, Narcissus	1.00@ 3.00
Valley, Tulips	1.00@ 3.00
Violets	.75@ 1.25
Harrisii	6.00@12.00
Smilax	10.00@15.00
Adiantum	1.00@ 1.50
Lilacs, per bunch	.50@$1.50

BOSTON, Feb. 26.

Roses, Niphetos	3.00
" Gontier	4.00
" Perle, Sunset	5.00@ 6.00
" Bride, Mermet	6.00@16.00
" American Beauty	6.00@40.00
Carnations	2.00@ 3.00
" fancy	3.00@ 4.00
Lily of the valley	1.00@ 3.00
Roman Hyacinths, Freesia	1.00@ 1.50
Trumpet narcissus, Daffodils	2.00@ 4.00
Callas, Harrisii	6.00@10.00
Mignonette	2.00@ 8.00
Violets	65@ 1.00
Pansies, Myosotis	1.00
Tulips	2.00@ 4.00
Adiantum	1.00
Smilax	12.50
Asparagus	50.00

PHILADELPHIA, Feb. 26.

Roses, Perle, Gontier, Niphetos	3.00@ 4.00
" Cusin, Watteville, Hoste	4.00@ 5.00
" Bride, Mermet, La France	6.00@ 8.00
" Kaiserin, Bridesmaid, Testout	6.00@10.00
" Belle, Beauty	25.00@35.00
" Laings	20.00@25.00
" Brunner	40.00@50.00
" Jacqs	12.50
Carnations, H. Keller	6.00
" Ophelia, Sweetbrier, Daybreak	2.00@ 3.00
" Edna Craig	2.00@ 3.00
" good assorted	1.00@ 1.50
" good per 1000	7.50@10.00
Valley	3.00@ 4.00
Romans, Paper white	2.00@ 4.00
Daffodils	3.00@ 5.00
Smilax	12.00@15.00
Adiantum	1.00@ 1.50
Violets	.50@ 1.00
Mignonette	1.50@ 2.00
Asparagus	50.00@75.00
Harrisii lilies	10.00@12.00
Callas	6.00@ 8.00
Freesia	1.00@ 1.50
Tulips	4.00@ 5.00
Cattleyas	40.00
Orchids	15.00@40.40

CHICAGO, Feb. 27.

Roses, Perle, Niphetos, Gontier	3.00
" Bride, Mermet, La France	3.00@ 4.00
" Wootton, Meteor, Bridesmaid	4.00@ 8.00
" Beauty	10.00@35.00
" Mixed	3.00
" Jacqs	12.50
" Hybrids	15.00@25.00
Carnations, long	1.00@ 1.50
" fancy	2.00
" short	.75
Valley, Romans, narcissus	2.00@ 3.00
Tulips, Daffodils	3.00@ 4.00
Tulips, fancy	5.00
Dutch hyacinths	5.00@ 8.00
Violets	1.00@ 1.50
Callas, Harrisii	4.00@ 8.00
Mignonette	1.50@ 2.50
Smilax	8.00@15.00
Asparagus	50.00
Orchids	15.00@50.00

CINCINNATI, Feb. 26.

Roses, Beauty	35.00@75.00
" Mermet, Bride	5.00@ 6.00
" Perle	3.00@ 4.00
Narcissus Von Sion	4.00
" Trumpet Major, Paper white	3.00
Callas, Harrisii	8.00
Valley	3.00@ 4.00
Romans	2.00
Violets, pansies	1.00
Asparagus	50.00
Smilax	10.00@15.00
Adiantum	1.00

ST. LOUIS, Feb. 26.

Roses, Perles, Niphetos, Wootton	3.00@ 4.00
" Bride, Mermet, Bridesmaid, Meteors	5.00@ 7.00
" Watteville, Hoste, Cusin	4.00@ 5.00
" La France, Albany	4.00@ 5.00
" Beauty	5.00@40.00
Carnations, long	1.00@ 2.00
" fancy	1.50@ 2.50
" short	1.00
Valley	3.00@ 4.00
Romans, Narcissus	2.00@ 3.00
Tulips	2.00@ 3.00
Daffodils	1.00@ 5.00
Violets	.25@ 1.00
Harrisii, Callas	4.00@ 8.00
Mignonette	1.50@ 2.00
Smilax	15.00
Adiantum	1.25

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Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

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OUR SPECIALTIES:
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CUT FLOWERS.
ROSES, standard varieties and novelties.
Carnations, all the new sorts in finest quality.
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Roses Shipped to all points. Price list on application.

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WHOLESALE
FLORIST,
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BRANCH: Cut Flower Exchange, 408 E. 34th Street.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

Against the Reduction of Duty.

To the Members of the Senate and House of Representatives of the United States:

SIRS:—We, representative Seed Growers and Seed Merchants of the United States, in convention assembled at Philadelphia this 13th day of February, 1894, beg leave to enter our protest against the reduction of the Duty upon Garden Seeds as destructive to the most advanced branch of agriculture.

The late United States Census Report shows that there are in the United States 596 Seed Farms (evidently an incomplete return), with a total of 169,951 acres, 96,500 acres of which are devoted exclusively to the growing of Vegetable and Flower Seeds, while quite one million bushels of selected grains of corn, wheat and oats for seed are sown on other Farms not included in this enumeration.

The report shows that of the 596 Seed Farms 258 are in the North Atlantic Division; 157 are in the North Central Division; 89 are in the South Atlantic Division; 57 are in the South Central Division; 35 are in the Western Division; total, 596.

The value of the Implements used in the culture of the Seed Crops of these Farms is $221,736. The value of the farms, buildings and implements is stated to be $18,325,000. The number of Farm Employes are reported as 13,500 men, 1,540 women, while the number of horses employed is 4,419. Quite 90 per cent. of these farms have come into existence since 1860, but the Seed Farmers now are much depressed by an almost paralyzing competition from England, France, Germany and other countries.

It will be unfortunate if any legislation should be enacted which would further depress this agricultural interest, at once the most scientific, the most technical, the most exhaustive of all farm operations.

The Market Gardeners or Truckers of the United States, men who plant a portion of the seed produced by the American Seed Farmers, cultivate 534,000 acres, producing a value of "Truck" amounting to $76,500,000. Upwards of 100 million dollars are invested in Market Gardening Establishments, while 241,000 hands are employed, aided by 76,000 horses and mules and 10 million dollars worth of Implements.

The successful prosecution of Trucking first of all depends upon the vitality and purity of the Seed produced by the Seed Farmer, consequently any reduction of the American Seed product, unquestionably pure, and more vital than any imported product works a serious injury to the Market Gardener or Trucker who has to plant the seed.

In view of the importance of our business to ourselves and our employes and to the 241,000 people employed upon Truck Farms, we place upon record our protest against the placing of Garden Seeds upon the Free List as provided for under the Wilson Bill. Especially, as no sectional interests are involved and as no persons are objecting to the duty upon Seeds, Congress is not in any way called upon to remove the duty upon Seeds, the present duty of 20 per cent. being simply a revenue duty.

American Seeds of similar kinds to those sent over from Europe are of a better percentage of vitality because of being ripened under better climatic conditions, and because of not having been subjected to the damp and therefore injurious influences of an ocean voyage, but once the European seeds are here they are not sold as of foreign growth, but the less desirable articles, grown by far cheaper labor, are at once priced up just below the price of American productions and placed actively in competition—the result being a breaking down of paying prices for American Seeds and consequently a reduction of farm wages and farm profit.

Such a condition is most decidedly marked in the case of Turnip Seeds, the growing of which by Americans, once an interest of large extent, has almost entirely ceased—the foreign article with the 20 per cent. duty and ocean freight paid being landed ordinarily at a price of 8 cents per pound while an American cannot offer to grow it at less than 12 cents. And so with seeds of Radish, Spinach, Cabbage, and many other seeds. The Wilson Bill now proposes to remove the 20 per cent. duty and make the difference still more to the disadvantage of the American Seed Grower.

Under Free Entry of Garden Seed many more varieties will cease to be grown and many Seed Farmers, the most progressive men in their districts, will be forced to labor in other directions.

While in the ordinary pursuit of agriculture the grower of Hay, will, under the Wilson Bill, have a protection of 33 per cent. against Canadian Hay; 20 per cent against Oats, Barley and Rye; 25 per cent. against Potatoes and 50 per cent. against Rice, the operator in the higher development of agriculture—Seed Growing—the Art of Agriculture—will have no protection whatever.

Consequently we, for ourselves, as Seed growers, merchants and business men, and for our employes, petition that Garden Seeds be retained upon the 20 per cent. list as at present.

C. L. ALLEN, Floral Park, New York.
ALBERTUS N. CLARK, Milford, Conn.
HENRY F. MICHELL, Philadelphia.
H. G. FAUST & Co., Philadelphia.
W. H. MAULE, Philadelphia.
W. ATLEE BURPEE & Co, Philadelphia.
WEEBER & DON, New York City.
J. M. LUPTON, Mattituck, N. Y.
COMSTOCK, FERRE & Co., Wethersfield, Conn.
J. BOLGIANO & SON, Baltimore, Md.
JOHNSON & STOKES, Philadelphia.
WILLIAM MEGGAT, Wethersfield, Conn.
HENRY A DREER, Philadelphia.
D. LANDRETH & SONS, Philadelphia.
ROBERT BUIST, JR., Philadelphia.
JOHNSON, ROBBINS & Co., Wethersfield, Conn.
Z. DEFOREST ELY & Co., Philadelphia.

MR. H. W. BUCKBEE is now in California.

THE JOHN A. SALZER SEED Co. have in mind a branch house in Philadelphia or New York.

QUITE A QUANTITY of the cauliflower seed shipped from Denmark has been delayed by a steamship accident and likely to be three weeks late, not a fortunate thing for dealers in that seed, needed for early sales.

THIS SEEMS to be a great year for special discounts. One firm offers customers who send them additional orders. 20% additional discount on packet seeds above all catalogue discounts regularly offered. It reminds us of the old days of the plant trade in which the extra and special discounts used to come very near making up the 100% of the cost price and frequently if one side of the order sheet contained paid items, it required the full back page of the list for a list of the extras; will such sad history repeat itself in the seed trade?

Please mention the AMERICAN FLORIST every time you write to an advertiser

FIFTY THOUSAND
PEARL TUBEROSES
F. O. B. NEW YORK.
We offer selected bulbs of above, from four to six inches in circumference, for present shipment, at $9 00 per 1000. Orders accepted subject to being unsold.

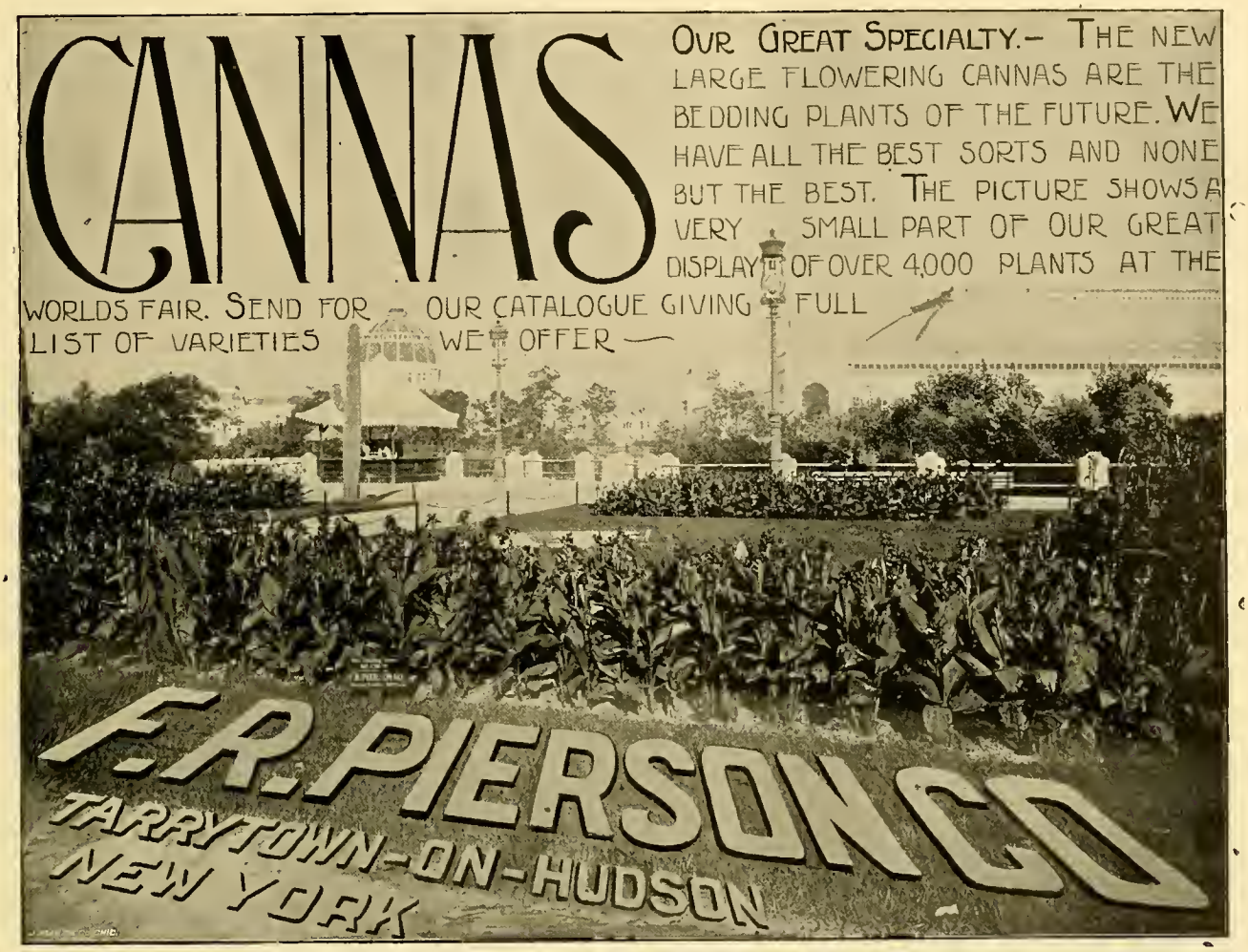
SWEET PEAS, California grown.
We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.
(SHERWOOD HALL NURSERY CO.)
427-9 Sansome St., San Francisco, Cal.

Z. De Forest Ely & Co.
WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN
FLORISTS' SUPPLIES.
1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.

Ernst Reimschneider, Altona, Germany,
BERLIN LILY OF THE VALLEY PIPS
Extra selected quality, in cases of 3000 pips.
Now in COLD STORAGE WAREHOUSE.
Also for importation on orders, SEEDS, Dried Flowers, Grasses, etc., and Spring Bulbs.
SOLE AGENTS
C. C. ABEL & CO., P. O. Box 920, NEW YORK.

Oscar Knopff & Co.,
SEED GROWERS, ERFURT, GERMANY,
Flower, Kitchen Garden, Etc. Seeds.
LILY OF THE VALLEY BULBS.
Best qualities at low prices. Orders promptly executed.
MEDAL AWARDED AT WORLD'S COLUMBIAN EXPOSITION
Sole Agents for United States and Canada:
C. B. RICHARD & CO., 61 Broadway, NEW YORK.
Trade Catalogue for 1894 free on application.



Hulsebosch Brothers,

OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LILIUM SPECIOSUM ALBUM	$ 6.00	
" " ROSEUM	5.00	
" " RUBRUM	5.00	
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors	4.00	35.00
CONVALARIA MAJALIS, German pips	1.00	8.00
TUBEROSES, Pearl and Tall, A1 (big) bulbs	.90	7.50
LOW BUDDED ROSES, in sorts, Dutch Stock	9.00	
English Stock	11.00	

All other plants or shrubs can be ordered for March, '94 delivery.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.

ROOTED CUTTINGS. Per 100

Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Coleus of sorts, mixed	.50
" best new and old, named	1.00
Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00
Fittonia, red veined, $2 00; silver veined	1.50

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted, Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't	$3.00 and 4 00
Abutilons, assorted	4 00
Echeveria glauca	$2.00 and 3.00
Extensa globosa, 6 to 12 in. across	25 & 50c. ea.
Achyranthus, assorted	3.00
Coleus, assorted	$2.00 and 3.00
Hibiscus, assorted	4 00
" Schizopetalus	6.00
Antherieum picturatum, per dozen, 75c.	
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4 00
Silver-Leaf Geraniums, 3 varieties (no Mme. Salleroi)	4.00
Oxalis, Ortgiesi and Bowii	4.00

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.

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HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for **Cut Flowers**, sent to any address upon receipt of **$2.00.**

M. A. HUNT, Terre Haute, Ind.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

Verbenas

SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" " rooted cuttings	1.25	10.00
General collection, named, " "	1.00	8.00
" " " 2¼-inch pots	2.50	20.00

Send for price list of Carnations, Chrysanthemums and other florist stock.

WOOD BROTHERS,
Fishkill, N. Y.

E. G. HILL & CO.,

Wholesale Florists

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SEEDS! PLANTS! BULBS!

Everything appertaining to the **Farm** and **Garden** of the best and choicest quality. **PRICES RIGHT.**

Catalogue on application.

WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

200,000 Pansies.

The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown, and are fine and stocky. Finest mixed, by Express, $5.00 per 1000; 5000 $20.00; 10,000 $35.00. Small plants by mail, 60c. per 100.

Seed, pure white, yellow or mixed, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock Box 254. SOUTHPORT, CONN.

Montreal.

The Montreal Gardeners' and Florists' Club met and held their first monthly meeting (since the election of officers) on February 13. The principal business was the question of union with the Horticultural Society. The committees of the two societies had met, and presented a scheme by which the arrangement could be carried out with honor and satisfaction to both parties. After a lengthy discussion the subject was left over to another meeting, pending the decision of the directors of the M. H. Society. It was decided to have a social as soon as possible after Easter. I. Perrin read an essay upon "Chrysanthemum culture" which was well received. Considerable discussion ensued, many members desiring to shift all the responsibility for blind wood and stoppage of growth in mums to the "bug." Others, however, were more disposed to let the bug off this time, maintaining that it was owing to our hot dry summer and dry early fall that so much failure resulted in this respect. All, however, were agreed that growing under glass was the only reliable remedy, although good plants and even the best ever grown in this vicinity were grown out of doors last year by Mr. T McHugh.

Another instructive and well written essay upon orchids was read by Mr. I. Holliday, one of our orchid specialists. As the essayist stated, the subject was too broad a one to be disposed of in one short hour. He, however, managed to squeeze into a small amount of paper and time a great deal of practical information. He had especially a good word for the cool section of odontoglossums, which are so difficult to handle with much success in this country, owing to the intense heat of summer and the consequent impossibility of keeping them cool enough. Orchids generally, the essayist thought, would be more largely grown as time went on. They had to be known to be appreciated.

HABITANT.

PREPARE your advs. now for our annual spring number to be issued March 22. It will be a beauty and will go to every florist in America.

OUR trade directory and reference book for 1894 will be issued next month. Send your order now for a copy. Price $2.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

CARNATIONS.

Varieties good. Cuttings good. Lizzie McGowan, Silver Spray, Aurora, Grace Darling, Portia and J. R. Freeman, at $1.25 per 100; $10 per 1000. Fred Dorner, $2.00 per 100; $12.50 per 1000. Daybreak, at $2.50 per 100; $20.00 per 1000. Edna Craig, $3.00 per 100; $25.00 per 1000.

Annie Pixley and Helen Keller.

PIXLEY is one of those beautiful light pinks, with a fair sized flower and good, strong calyx. With ordinary culture stems can be cut twenty inches long. The flower is a model in form, and the growth is strong and healthy.

KELLER you know all about, they are both sure to make good paying varieties for cut flowers.

Pixley per 100, $12 00; per 1000, $100 00.
Keller per 100, $12.00; per 1000, $90.00.

Verbena Lancaster Beauty.

Decidedly the prettiest Verbena that grows, novel as well as beautiful and sells at sight.

Price, per 100, $2.00.

PANSIES.—I can still supply a few of those seedling plants at $5 00 per 1000, or 75 cts. per 100. The same good strain I always have.

No list published and terms are cash before shipping or C. O. D.

Coleus at $7 per 1000. Alternanthera, transplanted, Red, Yellow, Pink, $1.25 per 100; rooted cutting, $6 00 per 1000.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

EVERYBODY who sees the new and beautiful Fancy Carnation "HELEN KELLER"

are favorably impressed with it, and generally leave an order.

CERTIFICATE OF MERIT

By American Carnation Society at Indianapolis, February 20, 1894. . . .

Orders booked now and filled in rotation, commencing March 15, '91. **Strong Rooted Cuttings, $3.00 per Dozen; $12.00 per Hundred; $90.00 per Thousand.** $2.00 per hundred additional for plants from thumb pots. *Orders may be sent either to*

EDWIN LONSDALE, CHESTNUT HILL, PHILA. or JOHN N. MAY, SUMMIT, N. J.

The Jacqueminot Carnation . .

IS A PERFECT SUBSTITUTE FOR THE JACQUEMINOT ROSE.

Many buy it in preference because of its lasting qualities, and you can have it in bloom when the rose is out of season. Send for descriptive circular, enclose 10c. and we will mail you long stem sample blooms. The color is a bright crimson (no black in it). If the blooms look dull on arrival, they have been chilled or frozen. Notify us, we will ship again.

Rooted Cutting ready now:

PER DOZEN, $2; PER 100, $10; PER 1000, $80. 250 AT 1000 RATE.

PETER FISHER & CO., ELLIS, NORFOLK CO., MASS.

Rooted Cuttings. CARNATIONS. Rooted Cuttings.

ALL THE BEST VARIETIES IN CULTIVATION.

FINE STOCKS OF DAYBREAK, EDNA CRAIG AND CARTLEDGE.

NO DISEASE! NO RUST!

Catalogues ready January 1st, '94. Correspondence solicited.

Address H. E. CHITTY, Paterson, N. J.

CARNATIONS

Rooted Cuttings Ready Now.

Silver Spray	Wm. Scott	E. Pierson
Lizzie McGowan	Daybreak	Portia
Blanche	Edna Craig	Wabash
Golden Gate	Annie Pixley	F. Mangold
J. J. Harrison	M. Albertini	Final Wave
T. Cartledge	Nancy Hanks	Dr. Smart

These and other standard sorts $12 per 100 and upwards.

Varieties of 1894 Ready April 1st.

The Stuart (scarlet) was awarded the gold medal at Indianapolis. Uncle John (white) received certificate of merit at same place. Helen Keller, Goldfinch (yellow) and E. A. Wood.

SEND FOR COMPLETE PRICE LIST.

GEO. HANCOCK & SON, GRAND HAVEN, MICH.

CARNATIONS

Rooted Cuttings, Now Ready.

	Per 100	Per 1000
DAYBREAK	$2 50	$20 00
BUTTERCUP	4 00	35 00
PURITAN	2 00	15 00
SILVER SPRAY	1 50	10 00
LIZZIE McGOWAN	1 50	10 00
GRACE WILDER	1 50	10 00
PORTIA	1 50	12 00

Cash with order. 10c. per 100 extra when ordered shipped by mail.

Send for wholesale price list of Rooted Cuttings and Plants.

JAMES HORAN, Florist, Bridgeport, Conn.

CARNATIONS

MAMMOTH STRAIN VERBENAS.

Rooted Cuttings or Plants.

New French Cannas; Chrys. Geo. S. Conover; Geranium Silver Jewel; Anemone Whirlwind; Pink Her Majesty; Fuchsia Trailing Queen; and many other fine Novelties.

Write for Illustrated Catalogue.

VICK & HILL, ROCHESTER, N. Y.

CARNATIONS

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Wm Scott, Edna Craig, Daybreak, Thos. Cartledge, Buttercup, Mrs. Swan and many of the standard kinds. Orders filled for the New varieties.

Stuart, Uncle John, Helen Keller, Sweetbrier, Annie Pixley, Boston d'Or.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

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COLEUS. COLEUS. COLEUS.

Rooted Cuttings.

And we are giving them away, Golden Bedder, Golden Queen and Crimson Verschaffelti at $6 per 1000. Other varieties, our selection, at $5 per 1000.

AGERATUM, blue and white	$ 75 per 100
FUCHSIAS, the leading sorts	1 00 "
The same from flats	1 25 "
PETUNIAS	1 50 "
HELIOTROPE, 4 varieties	1 00 "
SALVIA SPLENDENS	1 00 "

Cash must always accompany the order

J. E. FELTHOUSEN, 370 Van Vranken Ave., SCHENECTADY, N. Y.

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150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address GEORGE WITTBOLD, 1708 N. Halsted St., CHICAGO.

CARNATIONS

Rooted Cuttings of the following varieties now ready. Entirely free from rust. I have never had rust on the place.

	Per 100
PORTIA	$1 00
LIZZIE McGOWAN	1 00
PURITAN	1 25
NELLIE LEWIS	1 50
FRED. DORNER	1 50
GRACE WILDER	1 00
AURORA	1 50

100,000 Rooted Cuttings Carnations ready. If wanted by mail, add 10c. per 100 for postage.

COLEUS.

A large stock of strong rooted cuttings ready. Price 50 cts. per 100; many nice varieties. Golden Bedder if ordered alone 65 cts. per 100. If Coleus are wanted by mail, add 10c. per 100 for postage. 50,000 ready.

ALTERNANTHERA Aurea nana, 50 cts. per 100.
" P. Major, 50 cts. per 100.

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

4 NEW CARNATIONS
FOR 1894.

UNCLE JOHN, white; **THE STUART,** scarlet; **E. A. WOOD,** pink variegated; **GOLDFINCH,** yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from **Headquarters.** We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Eliz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.
Send for price list.

F. DORNER & SON, La Fayette, Ind.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE.

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $16.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000.
Send for price list.

EDW. SWAYNE,
KENNETT SQUARE, PA.

ROOTED CUTTINGS OF
CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARO, UNIONVILLE, Chester Co., PA.

DAYBREAK, NANCY HANKS And CARTLEDGE.

NOW READY.

FINE, CLEAN, HEALTHY STOCK. SPECIAL PRICES to large buyers of these splendid Carnations.

Address **H. E. CHITTY, Paterson, N. J.**

50,000 Carnations.

ROOTED CUTTINGS READY.
NO "RUST."

SEND FOR LIST. . . .

Wm. Swayne,
P. O. Box 226. KENNETT SQUARE, PA.

Carnations==Panic Bargains

	Per 1000		Per 1000
Lady Emma or Portia	$ 10.00	Puritan	$ 15.00
White Dove	10 00	Pearl	20.00
Lizzie McGowan	10.00	Edna Craig	20.00
Schaffer	10.00	Daybreak	20.00
Grace Wilder	10.00	Thos. Cartledge	20.00
Mrs. Robt. Hitt	10.00	Mayflower	20.00
Grace Darling	10.00	Hector	20.00
White Wings	10.00	Amy Phipps	25.00
Crimson Coronet	10.00	Blanche	25.00
Golden Gate	10.00	Mrs. E. Reynolds	25.00
American Flag	10.00	Richmond	25.00
Attraction	15.00	Wabash	25.00
J. J. Harrison	15.00	Western Pride	25.00
Aurora	15 00	Dr. Smart	25.00
Lonise Porach	15.00	Purdue	25 00
Nellie Lewis	15.00	Florence Van Reyper	25.00
Orange Blossom	15.00	Buttercup	35.00
Tidal Wave	15.00	New Jersey	25.00

ROOTED CUTTINGS OF VERBENAS, $7.00 per 1000.

Strictly Cash with order. Orders filled in rotation.

ESSEX HEIGHTS FLORAL CO., BELLEVILLE, N. J.

THE YELLOW CARNATION BOUTON D'OR.

After growing this variety for the past three winters we are convinced that it is the best Yellow Carnation ever introduced.

WHAT WE CLAIM:—That it is decidedly a good, strong grower and free bloomer; color a beautiful yellow penciled with dark carmine. That it is of the best form and fully as large as Buttercup. That the calyx is perfect, the stem long and stiff, and the foliage possibly better than that of any other carnation.

PRICE, $2 per doz.; $10 per 100; $75 per 1000. ROOTED CUTTINGS READY MARCH 1, 1894.

Orders filled in strict rotation. Come and see it grow and be convinced. Only one hour from New York City.

Dailledouze Bros., Flatbush, L. I., N. Y.

NO DISEASE MEANS LARGE CROPS AND GOOD PRICES

Buyers of rooted cuttings of CARNATIONS are fast learning the superior merit of the stock grown and sent out by

• • • THE COTTAGE GARDENS,
QUEENS, L. I.

P. S.—Send for new 28 page Illustrated Catalogue just out.

AMERICAN CARNATION SOCIETY.

Orders solicited for advertising space in the Report of the Indianapolis meeting.

C. J. PENNOCK, Secretary,
KENNETT SQUARE, PA.

HEADQUARTERS
. . FOR . .
Bread and Butter Carnation Cuttings

PURITAN, LIZZIE McGOWAN, PORTIA, GRACE WILDER, } PER 100 $1.00 PER 1000 $9.00

All other Good Kinds. Write for Prices.

S. J. REUTER, WESTERLY, R. I.

CARNATIONS.
ROOTED CUTTING.

DAYBREAK, $2.50 per 100; $20.00 per 1,000.
SILVER SPRAY, McGowan.
GARFIELD, $1.50 per 100; $9.00 per 1,000.
TIDAL WAVE, $1.75 per 100; $12.00 per 1,000.
PORTIA, HECTOR.
LADY EMMA, $1.25 per 100; $8.00 per 1,000.

LAKE GENEVA FLORAL CO., Lake Geneva, Wis.

Have you seen it? What! Nicholson Carnation.

New and Choice **CARNATIONS** From Soil.

Our stock includes Uncle John, The Stuart, Wm. Scott, E. Craig, Daybreak, Albertini, McGowan, and other crack varieties—the best there is.

Nice plants, once transplanted from sand, healthy and vigorous, ready to pot up or plant out, and satisfaction guaranteed. Orders will be filled in rotation after April 1. Send for list before you order. Prices about the same as reliable growers charge for sand cuttings.

ALEX. McBRIDE, ALPLAUS, N. Y.

CARNATIONS.

Strong, healthy, well rooted cuttings now ready.

SAMUEL J. BUNTING,
Elmwood Ave. and 58th St., PHILADELPHIA, PA.

St. Louis.

Trade for the past week has been good, fine stock of all varieties being scarce, and commanding good prices. Von Sions are in rather short supply, and bring 4 to 5 cents; good Romans are also scarce, some red skin Romans of good quality are being received and go at sight. Good roses are particularly scarce, callas are plentiful and bring 4 to 6 cents, there are enough Harrisiis coming in to supply all demands and the price is 5 cents.

The Chicago wholesale houses have flooded the town with special lists quoting assorted roses at $20 per thousand; several firms are receiving this stock, which in reality is not worth more than is asked for it.

At the regular meeting of the Bowling Club Mr. Harry Young raised the lucky man's score one pin, taking the lead for the present series with a score of 258.

The friends of Mr. James Young are congratulating him upon the addition of a son to his family. R. F. T.

Hollyhock Diseases.

ED. AM. FLORIST: I have read with interest (in your issue of January 25) the remarks of your correspondent B. D. Halstead on hollyhock diseases. I have been a grower of these stately flowers for many years (before double flowers were known) and have had to combat with the various diseases which the whole mallow family is subject to. For some years I have syringed the plants with a weak solution of Per Mangate of Magnesia and can now grow clean, healthy stock. Anyone can try the remedy, as it is neither much trouble nor expense.

JOHN CLARK.

Wemyss Castle Gardens, Fifeshire, Scotland.

THE USE of hardy ferns in floral arrangements and decorations has increased to a remarkable extent of late years. Mr. L. B. Brague of Hinsdale, Mass., was the pioneer in gathering these for market and we learn that during 1893 he gathered and marketed no less than 6,000,000 ferns. He also handles other greens and during the last year he marketed 13,000 Christmas trees, 25,000 yards of wreathing, 600 barrels of moss and 10 tons of bouquet green. He now finds a good demand for baled spruce and balsam branches for cemetery work, and carload orders are not infrequent.

Orange Blossoms.

Sprays 6 inches long, $5.00 per 100 by express. By mail 25 cts. extra.

Palm Leaves, $2.50 per 100.

W. D. BALL, Orange Park, Fla.

DAHLIAS.

Largest and Best Stock in America. Over 200 Choice varieties

We have won the most FIRST PRIZES wherever shown during the past ten years for our Dahlias. Large, strong, divided, field-grown roots correctly named, $6.00 to $10.00 per 100, according to varieties

GRAINGER BROS., Toronto, Canada.

We Pay the Express.

100,000 PANSIES.

grown from seed that has no superior, strong, stocky plants once transplanted 60c per 100, $4.50 per 1000

MAMMOTH VERBENAS Rooted Cuttings in all the most brilliant colors, 75c per 100, $5.00 per 1000, delivered free at your door.

S. WHITTON & SONS, Wholesale Florists,

9 & 11 Roberts St., UTICA, N. Y.

Hydrangea Paniculata Grandiflora

THE MOST VALUABLE OF ALL HARDY FLOWERING SHRUBS.

Get the Best Plants
At the Lowest Prices.
Get them at headquarters.

Choose from the Largest Stock in America.

One Year, 12 x 15 inches, fine,	$3.50 per 100;	$30.00 per 1000
Two Years, 3 x 3½ feet, fine,	4.00 "	35.00 "
Two Years, extra selected, 3 x 3½ feet, strong,	5.00 "	45.00 "
Three Years, 3 feet, strong, nicely branched, twice transplanted,	6.00 "	50.00 "

Packed in best manner and delivered to Express or Railroad free of charge on receipt of proper remittance.

Address, all orders The Dingee & Conard Co., West Grove, Pa.

P. S.—We have all the leading and popular shrubs in quantity and assorted sizes; field grown. Prices will suit you. Ask for list.

Rooted Cuttings.

COLEUS, 10 kinds by mail.....60c per 100
" 12 kinds by express..$4.00 per 1000
VERSCHAFFELTII and SHELLY YELLOW.....$5.00 per 1000
ALTERNANTHERA P. Major and Aurea Nana, by mail.....50c per 100
CUPHEA (cigar plant), by mail...50c per 100
PILEA (artillery plant), by mail...50c per 100
FUCHSIA, mixed.....$1.00 per 100

CASH WITH ORDER.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

BEGONIA VERNON.

From 2½-inch pots, if shifted will make good stock to propagate from. $3.50 per 100; $30 per 1000.

CLOTHILDE SOUPERT.

Strong, well foliaged plants, beginning to form buds, from 2½-inch pots, $3.50 per 100; $30 per 1000.

JOHN A. DOYLE,
SPRINGFIELD, OHIO.

Mention American Florist

THE ASSOCIATION FLORA,

BOSKOOP, HOLLAND.

NOW ON HAND IN NEW YORK:

CLEMATIS in sorts, 3 years.....per 100 $25.00
SPIRÆA JAPONICA " 4.00
DIELYTRA SPECTABILIS " 4.00

Lilium speciosum, Paonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9.00: Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.
Mention American Florist.

GRAPE VINES.

(FOREIGN.)

All the leading varieties for cultivation under glass, in following sizes. 1 year, 2 years and extra strong. Also peaches and Nectarines specially prepared for forcing in pots and tubs. Orders booked for specially prepared fruiting plants of Vines, Nectarines, Peaches, Strawberries Fall of '94 delivery.

JOHN G. GARDNER,
Johnstown, N. J.

RED SPIDER.

I used to be afraid of Red Spider, but am not now. Have not seen any in my buildings this winter. A sure and cheap remedy sent on receipt of ONE DOLLAR.

A. B. CAMPBELL, florist, Cochranville, Chester Co., Pa.

CHOICE VINES,

For Immediate Shipment.

5,000 AMPELOPSIS VEITCHII, 1 year, pot grown, fine. $7.00 per 100
1,000 AKEBIA QUINATA, (a fine climber, bears a rich maroon flower) . . . $6.00 per 100
3,000 CLEMATIS PANICULATA, (creamy white flowers in clusters, very fragrant profuse bloomer), 1 year pot grown, fine, $10 per 100
5,000 HONEYSUCKLES, Golden, Hall's Japan and Fragrans, strong plants. . . . $6.00 per 100
2,000 ENGLISH IVY, 1 year, very fine, $8.00 per 100

THE WM. H. MOON CO.,
MORRISVILLE, PA.

SPECIAL OFFER FOR 30 DAYS

To Introduce Our Superb Progressive XX and XXX Mammoth Verbena Seed.

There'll be some that will span the silver half and make progressive Florists laugh. Once plant, and you'll a customer be. That's what we are after, don't you see. Large trade packet XX 20 cents; XXX 50 cents for 30 days only. (To secure these rates, mention special offer; use both grades). In Gibson's sweet-scented Hybrids you will find all that can be desired in the Pansy ⅛ oz., $1; ¼ oz., $1.60; transplanted seedlings 75 per hundred. Our hand hybridized Double Petunia seed will produce the kind you will want to sell. Fine doubles and frilled singles. 500 seeds 75c, 1,000 seeds $1.25. The double white scabiosa snowball is the best thing out for summer and fall cutting ⅛ oz 25c., ¼ oz. 40c., ½ oz. 60c. Seeds all by mail postpaid. Descriptive wholesale price-list of Novelties and Specialties free to all. Address, cash with order please.

J. C. GIBSON, Woodbury, N. J.

Mention American Florist.



TRY DREER'S GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

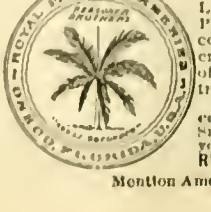
HENRY A. DREER,
Philadelphia, Pa.

ROOTED CUTTINGS

GOOD ONES.

Verbenas, 23 varieties	80c. per 100;	$3.00 per 1000
Heliotrope, 7 varieties	per doz.	20 cts.
Fuchsias, 12 varieties	"	20 cts.
Cigar Plant and Lopezia	"	20 cts.
Giant Alyssum and Marguerite Daisy	"	30 cts.
Manettia Vine, Mex. Primrose & Sultana	"	25 cts.
Red, White & Blue Plant (Cuphea Llavia)	"	30 cts.
Chrysanthemums, 20c. Coleus, 12c. Postage lo. n doz.		

Send for catalogue. I. L. PILLSBURY, Macomb, Ill.



Send for Special Trade.

List of Palms, Tropical Plants, Economic and Decorative Plants, etc. gathered from the four corners of the earth. Large illustrated catalogue free.

We want in exchange, miscellaneous sorts of Roses. Small ones. Send list of what you have to offer with price.

REASONER BROS. Oneco, Fla

Mention American Florist.

CLEMATIS.

ROOTED CUTTINGS.

	Per 100	Per 1000
Lilacina, purple	$3.50	$30 00
Jackmanni, purple	4.00	35.00
Velutina purpurea, purple	3 50	30.00
Cipsy Queen, blue	3.50	30.00
Viticella venosa, blue	3.50	30 00
Viticella rubra Kermesina, red.	3.50	
Lawsoniana, lavender	3 50	30.00
Ramona, lavender	3.50	30.00
Albert Victor, pink	3 50	
Henryi, white	3.50	30.00
Miss Bateman, white, fragrant.	3.50	30.00
Mrs. Howard Wyse, white	3 50	30.00
Mrs. Baker, white	3.50	30.00
Duchess of Edinburg, dbl white	4.00	
Paniculata, white, small flowers	3.50	30.00

1000 plants, our selection, (15 per cent. Jackmanni) $25.00.

N. B.—Orders can not be filled for these cuttings after March 20th.

W. S. LITTLE & CO.,
Commercial Nurseries. **ROCHESTER, N. Y.**

SMILAX.

CUT SMILAX—Half an acre ready to cut now. Quality A 1.

EASTER ORDERS BOOKED NOW.

SMILAX PLANTS—Extra strong 1 yr. old, $2 50 per 100; $20 00 per 10 0.

TRANSPLANTED SEEDLINGS—$1.00 per 100; $8 00 per 1000.

SMILAX SEED—A few ounces left; crop of 1893, at 50c. per ounce.

JOS. E. BONSALL,
WHOLESALE FLORIST,
308 Garfield Avenue, SALEM, OHIO.

Olea Fragrans.

MAGNOLIA FUSCATA, CAPE JASMINE, CASUARINA, RED CATTLEY GUAVA, PITTOSPORUM, CAMPHOR TREES, ORANGES and LEMONS, grafted on dwarf stock.

2,000 BIOTA Aurea Nana, our new dwarf Golden Arbor-vitæ, a perfect gem.

☞Send for trade list, giving prices for other desirable florist's stock.

ADDRESS **P. J. BERCKMANS,**
Fruitland Nurseries, Augusta, Ga.

CLEMATIS.

A fine lot of 2-year old plants: Jackmanni, Duchess of Edinburg, Henryii, C. Lovelace, Fairy Queen, Lady Neville, Gem, P. Alexandra and others, $3.00 per dozen; $22.00 per 100.

SMILAX SEEDLINGS,

from fall, 75 cents per 100; $6.00 per 1000.

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Hard Time Prices.

STOCK PLANTS.

GEO. W. CHILDS, WABAN, MRS. L. C. MADEIRA, VIVIAND-MOREL, V. H. HALLOCK, JESSICA, J. C. VAUGHAN, AMI HOSTE, DIANA, at $1.00 per dozen.

Cash with Order.

SOUTH SIDE FLORAL CO., Springfield, Ill.

IN THE FRONT RANK!

NEW WHITE CHRYSANTHEMUM

"MUTUAL FRIEND"

It is sure to be a prize winner and a leading variety for '94.

FIRST PRIZE and CERTIFICATE of MERIT MASS. HORT. SOCIETY, '93.

Orders booked now for March delivery, 50c. each; $4.00 per dozen. At these prices all should try it. We know it will please. Send for descriptive circular.

MANN BROS., Randolph, Mass.

New Chrysanthemum, MRS. J. GEO. ILS,

A CALIFORNIA SEEDLING.

Flowers sent from San Francisco to the Chicago Show awarded a MEDAL.

A grand white, of remarkable substance, size and depth of flower. See Illustration in AMERICAN FLORIST of November 16th. The very vigorous habit, and our large stock of this novelty, enables us to assure the trade of good plants, and to guarantee safe arrival. To be sent out the 1st of March, 1894, at the following prices to the trade:

75 cents each; $7.50 per 12 plants; $14 per 25 plants; $25 per 50 plants; $40 per 100.

ORDERS BOOKED NOW BY

JOHN H. SIEVERS, 25 Post St., SAN FRANCISCO, CAL.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms, ORCHIDS, Roses, and New Plants.

FRESH DRACAENA CANES NOW READY.

Mention American Florist.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants.

A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich St., New York City.

ORCHIDS SUITABLE FOR THE TRADE

The Leading kinds for cut flower purposes.

I. FORSTERMAN,
NEWTOWN, L. I., N. Y.

ROOTED CUTTINGS.

Chrysanthemums AND Carnations.

Write for list and prices. Prices to suit the times.

Address **J. G. BURROW, Fishkill, N. Y.**

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CHRYSANTHEMUMS.

A FINE STOCK OF

QUEEN AND NIVEUS,

$10.00 PER 100.

J. A. PETERSON,
41 West 4th Street, CINCINNATI, O.

CHRYSANTHEMUMS —AND— CARNATIONS.

Send for trade list.

NATHAN SMITH & SON,
167 W. Maumee St., ADRIAN, MICH.

STOCK CHRYSANTHEMUMS.

Pres. W. R. Smith, best pink 1893	each 40c
Niveus, fine white	" 40c
Golden Wedding, extra yellow	" 35c
A. T. Ewing and Alba Venus	" 25c
And a host of standard sorts	" 15c

BROWN & CANFIELD, Springfield, Ill.

ONE HUNDRED AND ONE FINE CHRYSANTHEMUMS

FOR $3.00.

All fine commercial varieties including one of the new early pink Mrs. E. G. Hill. Other stock in proportion. Write for what you want.

W. C. COOK & CO.,
70th St. & Madison Ave., CHICAGO.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

AMPELOPSIS VEITCHII.

LANGAN BROS., 921 Crescent St., ASTORIA, L. I., N. Y.

Toronto.

The Gardeners' and Florists' Association held its regular monthly meeting last week. The attendance was not so large as usual probably owing to counter attractions. Some say that Peter Jackson was the drawing card but perhaps it would be better to put it down to Henry Irving.

There were several interesting matters brought up which excited lively discussions amongst which was the offer of the "Canadian Horticulturist" to allow two pages as a beginning for floricultural matter to be supplied by members of the association. This paper is now published by the Fruitgrowers' Association and is chiefly devoted to the interests of that industry. The matter was laid over in order to obtain further particulars as to cost to members, etc.

There was also lots of talk over a letter from "a Member" who afterwards turned out to be Mr. Frank Burfitt, asking if something could not be done to stop the cutting of prices and whether a Florists' section of the Association would be agreeable to the members generally. The meeting seemed to favor the idea of a Florists' section and the President appointed a committee (Mr. C. Tidy to be chairman) to examine into the question and report at the next meeting. My own idea is that a Cut flower Exchange is the only panacea that can cure the cutting of prices which it seems to me must of necessity be regulated by the inexorable laws of supply and demand. Whether this city is ripe for such an undertaking and how to start the ball rolling is for the florists to consider.

In spite of the hard times and its being Lent the city has been pretty lively this last week or two. The Governor General, Patti, Henry Irving, the performance of the Greek play "Antigone" by the University students, Peter Jackson, etc., have made the demand for florists' "stuff" a little greater than usual.

The preliminary chrysanthemum show prize list for 1894 will probably be published shortly without the prizes. The amount of money available is not sure yet and it would be a pity to raise the hopes of intending exhibitors only to dash them again. It is thought that a considerably larger sum may be obtained for prizes this year than has been done heretofore. Exhibitors want the list out now in order to know what to grow so something has to be done to relieve the pressure. E.

Our annual spring number, to be issued March 22, will be beautifully illustrated and will be equal to those of the past. Advertisers know what this means. No increase in rates. Send copy for your adv. early so we may have time to get it up in our best style.

AZALEAS FOR EASTER.



WE HAVE HOUSES FULL, AS WILL BE SEEN BY THE ABOVE ILLUSTRATION, OF AZALEAS FOR EASTER FORCING.

The plants are in the best possible condition, finely set with buds, not too far advanced to ship safely at this time, which will insure a supply for Easter. We can make selections of plants taken from different temperatures to give a succession of bloom. We offer plants

9 to 10	inches in diameter at	$ 4.50	per dozen;	$35.00	per 100.
10 to 12	" "	6.00	"	45.00	"
12 to 15	" "	9.00	"	70.00	"
18 to 22	" "	30.00	"		

The varieties we handle are the best market kinds. The 12 to 15 inch size are of exceptional value. Send for copy of **Dreer's Wholesale Price List** for 1894, mailed free to Florists, Market Gardeners and Nurserymen who enclose business cards.

HENRY A. DREER, PHILADELPHIA.

Victoria Regia. Egyptian Lotus.
Pond Lilies. Aquatic Novelties.

SEEDS, DORMANT ROOTS AND TUBERS.

If you have not received my Wholesale List, a post card to that effect will fetch one by next mail. Address

WM. TRICKER, Clifton, N. J.

ROOTED CUTTINGS

Carnations, Chrysanthemums, Coleus, Verbenas, Etc. now ready.

Stock is the very best, and prices very low. If you want any rooted cuttings it will pay you to correspond with us. Send for price list.

EVENDEN BROS., Williamport, Pa.

SPLENDID STOCK IN POTS

Alternanthera paronychioides, aurea nana, rosea nana, versicolor, $2 per 100. Coleus, assorted, 12 varieties, $2 per 100. Begonia, assorted, $4 per 100. Heliotrope, 3 varieties, $2 per 100. Geranium, 20 best bedders, $3 per 100. Ivy Geranium, 4 varieties, including Crozy, $4 per 100. Primula, 3½ inch pots, in bloom or bud, $7 per 100. Salvia, best dwarf red, $3 per 100. Carnation, rooted cuttings, $1 per 100—Portia, Lizzie McGowan, Puritan, Fred. Dorner, Grace Wilder, Aurora.

A. BARBE, Kansas City, Mo.

COLEUS.

Our stock is large and handsome, consisting of 70 to 75 varieties, including the very newest kinds.

ROOTED CUTTINGS, in 30 to 40 varieties, (our selection), at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.

NEW KINDS, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.

Golden Verschaffeltii and Mrs. I. D. Haight (yellow), at $8.00 a 1000. *We will include* at least 50 cuttings of the *new kinds* in every 1000 purchased.

CARNATIONS.

A large stock of BUTTERCUP in prime condition.

Rooted Cuttings, $5.00 per 100; $40.00 per 1000.
Prices of other kinds on application.

Send for circular. Safe delivery guaranteed in all cases.

W. R. Shelmire,
. . . AVONDALE, PA.

MR. GONZALEZ IN JAPAN.

Mr. Gonzalez of the **firm** of **F. Gonzalez & Co.,** of San Francisco, for the past two months has been traveling and collecting the finest and rarest stock of **Japanese Plants,** bulbs, etc., etc., that can be had in **Japan.**

He will return with stock on or about **February the 27th,** when he will be prepared to supply **all orders.** His twenty years experience in the importing business insures to all that his selections are carefully and well made. He understands the natural habit and growth of every plant of note or worth of **Japan,** as well as the pleasures and whims of **American fanciers.**

The fair dealing, the superior stock, the careful attention giving to **packing** and **shipments** by **Mr. Gonzalez's** firm secures for him the enjoyment of a steady and ever increasing trade.

Persons contemplating handling **A No. 1** stock will do well to communicate early with

F. GONZALEZ & CO., Wayne and Crescent Ave., San Francisco, Cal.

Supplies of all Kinds, such as Immortelles, Cape Flowers, paper pressed Hartford and Maidenhair Ferns, Wheat Sheaves, Flower Baskets, Pot Holders, Plant Stands, Fern Dishes, etc., etc.; all quoted **in our beautifully and richly illustrated new Trade List** mailed free. Also

Metal Designs, the best winter cemetery decoration, in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.

Cycas Leaves, (Sago Palm), **natural prepared,** equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**

Medal Awarded
at World's Columbian Exposition to
ERNST KAUFMANN & CO.,
113 N. 4th St., Philadelphia, Pa.
FOR
METALLIC DESIGNS, WHEAT SHEAVES, CELLULOID BASKETS AND POT COVERS, and all Florists' Supplies.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
50 N. 4th Street,
PHILADELPHIA, PA.
Our new Catalogue is now out, free upon application.
When writing mention the AMERICAN FLORIST.

MARSCHUETZ & CO.,
Florists' Supplies,
23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.

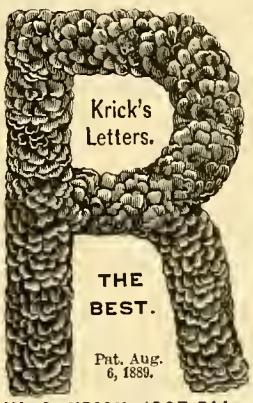
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Florists' : Supplies,
66 E. WASHINGTON ST.,
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Standard Flower Pots, Dried Grasses, Fancy Baskets Metal Designs. Trade Catalogue mailed free.



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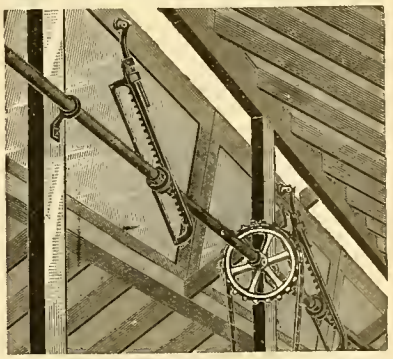
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SEE HERE
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FLORIST!
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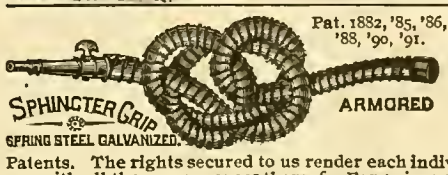


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Dear Sir:—Please send us by Star Union Line Freight (Pennsylvania Line), another 5 gallon can of Little's Antipest. We are not yet out, nor do we want to get out of it, for we think it indispensable and have sent you several customers by recommending it. Please hurry it through.
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Yours truly, CHAS. KROMBACH.

THE MALTESE CROSS BRAND
THE VERY BEST OF GARDEN & LAWN
HOSE
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If your dealer does not have it send direct to the manufacturers
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FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,
And for any and every purpose for which a hose can be applied.
Sizes, ⅛-inch to 42 inches diameter.
The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,** Sole Mf'rs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York
J. C. VAUGHAN, Agent, CHICAGO.

St. Paul, Minn.

"Trade is dull" is heard on every hand. With Lent here and five weeks more till Easter the outlook is not bright. Still sales have been fairly good until Lent, considering the times and we have heard of but little stock going to waste.

Roses are still in moderate demand, white ones especially being quite scarce some days. Carnations and Romans are also in demand. Von Sions seem a drug on the market. Violets hold their own, while lily of the valley sells well, as usual.

Quite a good many Chinese primroses and cinerarias are in the market, the former selling poorly, the latter well. As one of the growers remarked the other day, "I never had finer primroses, but I can't sell them." A few years since they sold readily at 25 cents apiece. Today they cannot be disposed of at half that price.

Some of the department stores have been selling hyacinths and primroses at 8 cents per pot, and quite a few have been disposed of in this manner. Some Easter lilies have also been offered at low prices by the same houses.

One or two of the growers have *rushed* their Harrisii too rapidly and find them now too far advanced to hold for the Easter buyers. Others are rather backward and will require plenty of night heat and warm sunshine to bring into bloom by March 20.

We notice a good many smaller flowering plants being grown for the Easter trade, cinerarias, hyacinths, genistas, geraniums, hydrangeas and azaleas; this latter we consider the ideal plant for Easter and trust that our growers may import this more largely than ever the coming season.

Mr. A. L. Vaughan of Chicago paid us a visit a week since. He reports trade as encouraging and revived the spirits of the florists here not a little. FELIX.

OUR annual spring number, beautifully illustrated and full of valuable matter that will surely be preserved, will be issued March 22. Arrange now for an adv. in it. No increase in rates.

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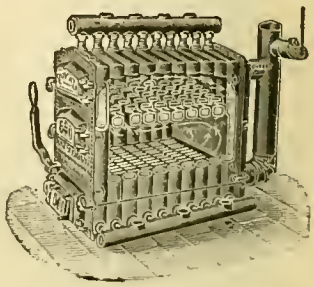
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Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

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Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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25 PER CENT. OFF for cash with order until further notice. A large stock on hand of good, strong pots. PRICE LIST, for any number:

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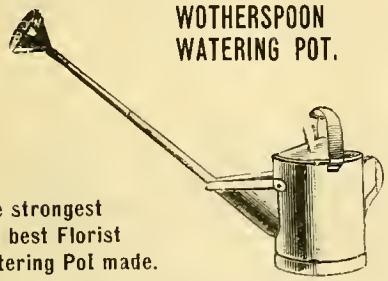
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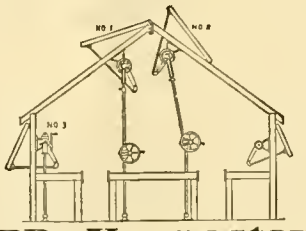
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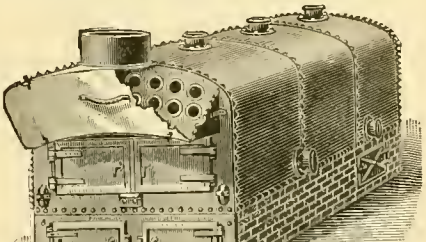
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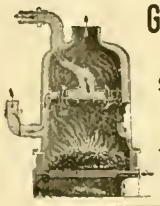
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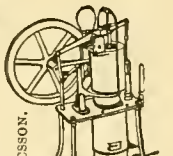
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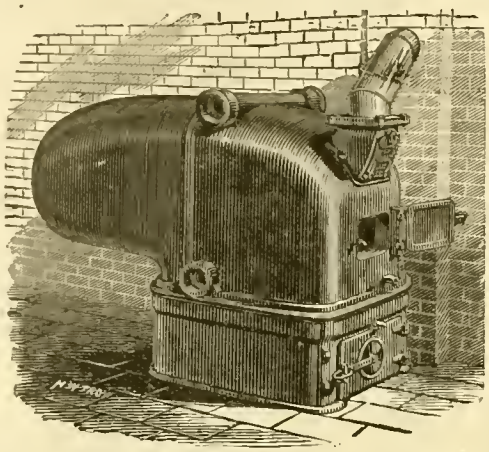
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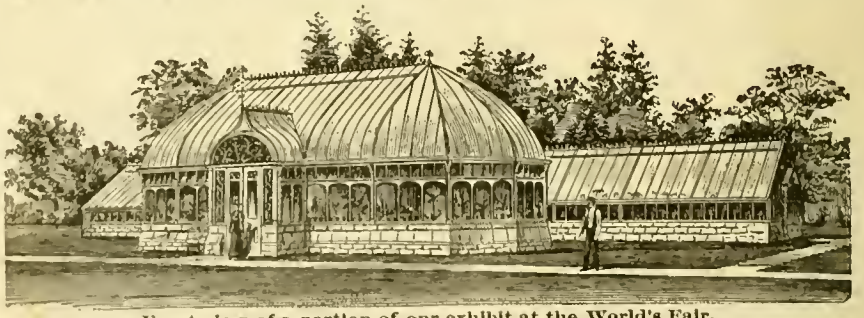
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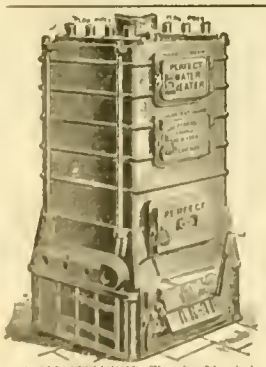
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THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas.

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THE AMERICAN FLORIST

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MALDEN, MASS.—A warrant of insolvency has been issued against the estate of Benjamin Grey and his business is in the custody of the sheriff. A meeting of creditors will be held at Cambridge, March 22.

Correction.

In the article on Adiantum Farleyense on page 659 of our issue for Feb. 22 the plant illustrated is described as four "inches" across when it should have read four *feet*. The error was such a palpable one that probably no one was led astray by it, as the illustration thoroughly repudiated such a libel. A 4-inch plant in a 10-inch pot would be quite a humorous combination.

Cincinnati.

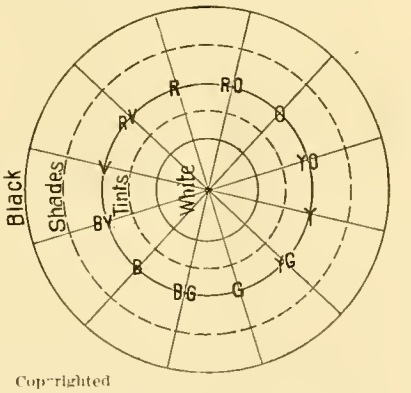
For the last two or three days trade seems to have dropped out and flowers of all kinds dropped in. We have never seen better stock.

R. A. Betz, once a designer at the White House, late of the Cincinnati Floral Co., has opened up a store at 294 Vine street. Being well acquainted, we trust Bob will do well. G.

The Law of Color in Flowers.

Why florists are unable to produce blue dahlias, roses and tulips, or yellow asters and verbenas is an interesting problem for consideration. The dearth of literature and exact data make it an obscure question for discussion; but a comparative study of plant life and color will develop many valuable points.

Physicists tell us that light and color are the result of forces acting directly or indirectly through median objects. From this standpoint our problem contains two constant factors, working in harmony; first these curious forces are generated in the same manner, by the sun and ignited bodies, second the constant relationship of conditions in plant life tend to reflect a definite system of colors.



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To show the relationship of these systems I have devised the chromatic staff, based upon spectrum analysis, separating the white sunlight into the following gradation of type colors: red, red-orange, orange, yellow-orange, yellow, yellow-green, green, blue-green, blue, blue-violet, violet and red-violet. The opposite colors, on account of the curious phenomenon of producing a white light with the spectrum, or a gray when the pigments are mixed, are known as the complementary or seventh interval colors. On this framework the circle W represents white, B the spectrum colors in order and C black. Between W and B there is a gradation of tints, and between B and C the shades. The term *interval*, as used in this paper, refers to the intervening spaces between type colors. For example, from yellow to yellow-green is one interval, from green to blue-green is another. They are numbered according to their distance from any given color.

Color pigments of plants are found in two distinct forms. (1) The blue, violet and a few white pigments are dissolved in the cell fluids. (2) The yellow, orange and some red pigments are in granular masses that are protoplasmic in their nature.

Prof. C. E. Bessey, in his book on structural botany, says an alcoholic solution of chlorophyl, or green pigment, can be separated chemically into two distinct powders, yellow and blue. In a private letter he stated that it was the verdict of modern scientists that these two colors were alkaline in their nature, and that the red and violet tints were either acid or contained acid salts. As a result of some chemical process the yellow and blue pigments are separated from the green chlorophyl and developed singly within natural orders. These facts, combined with phenomenal relations of color, have suggested the following law: *Opposite chemical and physical conditions tend to reflect complementary or seventh interval colors.* As this is a new thought we will spend more time in establishing its truth. The chemical composition of pigments is unknown, so the exact change that takes place in color development is obscure; but one fact is conclusively demonstrated, that the three elemental colors, red, yellow and blue, have never appeared in the same natural order. In a single order I found it a universal rule that either the blue or yellow was alone developed through one half of the chromatic staff, or the two remained in their purity without developing into the red. This is exemplified first in asters and clematis, where the blue principle is developed through the red into the complement orange; second, the chrysanthemums, roses and tulips are developed from the yellow through the red into the purple tints. Third, the iris and pansies retain the blue and yellow, but have not been developed into the red.

From these examples it seems to me that there can be two conclusions reached. First, the type colors yellow or blue can only be developed into opposite or acid conditions that would tend to reflect complementary or seventh interval colors. Therefore it will be a hopeless task to work for the third elemental color without destroying the original pigment. Second, in cases where yellow and blue are found in the same natural order it *may be possible* by special cultivation to obtain the red. I found an approximate example of this in a pansy that contained a decided orange-red.

The stamens and pistil contain the yellow pigments that border into orange, green or brown. In a few instances a purple tint is found in the stigma. Seeds, as a rule, are some shade of brown or yellow, with an occasional black or purple.

The same principle is very marked in the fruits. The unripe grapes vary from yellow-green to green; in the ripe stage we have a gradation of gray-violet and red colors prevailing. In apples the variation is from green to red passing through yellow. The ripening of autumn foliage gives a marvellously interesting example

of the change from green into yellow and red.

Development of pigments. Mr. R. L. Blair suggested that the principles of mixing pigments might be applied with advantage in originating valuable and showy flowers. With this thought we made a comparative study of the crossed varieties and found that much blundering work had been done. In many cases parent plants had been selected whose colors, according to the universal law of mixing pigments, would produce clouded and ugly results. In natural orders where the floral colors have been developed from the yellow into the purple, the yellow and red varieties may be crossed with admirable results; also yellow and orange, or white with yellow, red, orange or purple tints. The yellow and purple varieties are liable to combine and give an ugly brown-pink. The reason for this difficulty may be the unlike chemical conditions or the neutralizing effect of complementary colors. In orders developed from the blue type it is best to cross varieties of a pure red and blue. The orange and blue tend to evil results.

In orders where the blue and yellow are both found the yellow and purple shades may be crossed with good results. The rich brown pansy is an admirable example, where the two pigments are mixed in the same cell. From this standpoint I would suggest the following law as a guide: Parent plants should be selected whose flowers are either elemental colors or a dark shade and light tint of the same color.

Prevalency of floral colors: A comparison of the per cents of color found in the spectrum and the relative number of similar colors actually found in nature is valuable in explaining the difficulty of establishing the elemental red, yellow and blue. A writer in the AMERICAN FLORIST in his dilemma and search for pure color says: "Nature abhors the commonplace; she despises crude red, yellow and blue." Nature may abhor these colors, and they may be crude, but there are legitimate and scientific reasons for the limited number of these colors. (1) It is difficult to stop the increasing chemical conditions that would favor a reflection of pure red, yellow or blue. (2) From a table giving the per cents of color in the spectrum it will be found that there are only 54 parts of red, 54 of yellow and 56 parts of pure blue in 1,000 parts of white sunlight; with these two sets of conditions we could not expect to find numerous examples in our flowers.

Between the typical red and yellow there are 334 parts of orange. This and the fact that yellow is the most potent pigment gives a satisfactory reason for the large per cent of floral colors found in this field. Although there is a small per cent of pure yellow in the white sunlight the color is abundantly represented in plants, for two reasons: First, yellow is the most luminous color of the spectrum; second, the pigment granules seem to be less susceptible to chemical changes. The last fact was admirably demonstrated in the samples of corn taken from the cliff dweller's ruins and exhibited at the recent World's Fair. They were almost as bright as specimens grown in later years.

In the table we find 477 parts of yellow-green, green and blue-green, consequently we would expect to find a corresponding number of examples in nature, and are not disappointed. The small per cent of blue found in the spectrum, and the marked susceptibility of the fluid pigments to chemical changes, gives us a satisfactory reason for the limited number of blue flowers. These pigments are found in living tissues, but rapidly disappear in the ripening and decaying processes. The purple and violet tints are more abundant, as they are midway in the stage of chemical development; they are also fugitive colors.

Richness of color: It is a recognized law of physics that light passing through a transparent medium with a reflecting surface beneath will give off shaded colors that are richer. This principle is admirably demonstrated in the physiological structure of the colored portion of plants. The leaves and flowers have one or more layers of transparent epidermal cells through which the light passes. It is then subjected to the absorbing and reflecting processes of the pigments, and made still more beautiful and subdued by the white and gray reflections in the outer cells. The numerous floral tints are caused by an excess of absorption and a feeble reflection of colors that mingle with the white light in the epidermal cells.

It is a universally recognized fact in art that white flowers are a myth. They are all tints of some color depending upon the internal structure, and the nature of the incident light. I might also add that white, on account of the peculiar requirements, should always be regarded as a relative term, and much more difficult to establish than the elemental red, yellow and blue.

Plant markings: In plant markings we have three classes of variegations: First, tints and shades of the same color; second, colors separated by intermediate intervals; third, colors separated by the complementary or seventh interval. Combination of tints and shades of the same color is perhaps the most common class of variegation and is abundantly represented in flowers and foliage of familiar plants. The third, fifth, seventh, ninth and eleventh intervals are frequently found in chord relations. The third class of markings is suggestive of a complete color composition, as it begins with the first and ends with the opposite or complement color. The yellow and purple markings of pansies, asters and iris are fine examples.

I have thus indicated a few laws governing floral colors with the hope that the spirit of original investigation along these lines may be spurred on.

Ames, Iowa. ETTA M. BUDD.

Lady Hume Campbell Violet.

EDITOR AMERICAN FLORIST: I send you by to-day's mail sample bunches of Violets Lady H. Campbell, De Parma and Neapolitan. In an article on Lady H. Campbell violet in your issue of February 8th the writer says, that the color of Lady Campbell and Neapolitan are alike. As I grow the three varieties side by side and under the same conditions, I must say, that I differ with him. With me the color of the Neapolitan is decidedly lighter, while De Parma is about the same color as Campbell, but of slightly different habit and darker foliage.

The stock of the three varieties are all imported from a reliable firm in England, and the Lady Campbell, of which I have stock of two different firms, are exactly alike. The description of L. Campbell in English catalogues seems also to differ. Some give it as "Somewhat like De Parma, but a shade deeper in color," while in others it reads: "Similar to Marie Louise, but larger, finer, and flowers produced more freely." It is possible that there might be a variation in color of the flower if grown in different temperature and soil.

The Lady Campbell has never shown a spot with me, while all the other varieties, such as M. Louise, De Parma, Neapolitan, Duchess of Edinburg, etc., have been more or less diseased.

I do not think that I, or any one else, has ever claimed the color of L. Campbell to be darker than that of M. Louise.

H. HUEBNER.

GROTON, MASS., Feb. 11.

[All the flowers sent were of large size and good color, but we must confess we could not see any appreciable difference in shade between the Lady Campbell and the Neapolitan. There may be a difference, but it was certainly very slight in the flowers when received. Still it may not be fair to judge by flowers that had been shipped a thousand miles. But one thing is certain, Mr. Huebner knows how to grow violets, let the variety be what it may. A large bunch of each sort was sent and every flower was extra good and the foliage as clean as could be wished.—ED.]

With regard to the color of the above violet, opinions are liable to vary just as the color varies with different growers. Last week I visited Mr. Huebner, and with him the color of his flowers is almost as dark as that of the Marie Louise, indeed it would be hard to tell the difference, and many of the flowers could not be covered by a silver dollar, the petals projected all round. These flowers are bringing better prices than any other that are sold in Boston. With many of us however it is not so much a question of color as the fact of being sure of having violets. This was my case and this alone prompted me to speak of the violet a year ago. I have no personal interest whatever in the plant, but simply wish to help others as I have been helped.

In your last issue T. D. Hatfield raises the question of the validity of the variety as sent out by Mr. Huebner, quoting his own as authentic. I have grown the latter as sent me by himself, and there certainly is a difference. His variety failed altogether with me, and was discarded long ago in favor of the variety of Lady Hume Campbell as received from the largest specialist and grower of violets in England by Mr. Huebner. Mr. Hatfield further tells us that the Campbell resembles the Neapolitan. It seems strange that this is necessary when it is so well known that the Campbell is a sport from the Neapolitan and has often been described as such. The color is exactly intermediate between M. Louise and Neapolitan normally, though darker when well done, and as pale as the Neapolitan when not at its best, as late in the season.

With regard to the violet disease, also the carnation rust, it has been said before that the Bordeaux mixture will check the disease if used very early, and this I have found to be so, but as a cure it is of no value especially if the plants be badly affected.

E. O. ORPET.

SO. LANCASTER, MASS., Feb. 10.

Having given this violet a thorough trial the past season I wish to add my testimony to its many valuable qualities, for I believe it is one of the most valued acquisitions of recent years.

Realizing the fact that many have not been successful with the older sorts of late, it is gratifying to know we have one that seems to possess all the desirable qualities looked for in this flower and one that shows such vigorous health. For



Scale
6 Inches.

CARNATION E. A. WOOD AS SHOWN AT THE INDIANAPOLIS MEETING.

size of flowers and profusion of bloom it is unequalled, its perfume is grand, while for length of stems and color it is equally good. No violet in the past has afforded us such satisfactory results and our visitors have spoken in the highest terms of them.

The disseminator of this variety has proved himself a public benefactor.

E. W. BREED.

CLINTON, MASS., Feb. 13.

There have appeared in your paper several communications in reference to the above named violet, and I am satisfied it has not had fair treatment to this time.

I began to grow Marie Louise about fifteen years ago, have seen the Neapolitan grown in many places, and have grown Lady Campbell for the first time the present season, therefore I am able to judge of their comparative merits. I should however say that the Campbell has not had so favorable conditions as the Marie Louise when grown by me, as I had not intended to get the stock until late in the season and did not have a suitable house for them.

The commercial florist does not care about the "deflexity of the leaf foot stalks," or if "the tips of the leaves will turn towards the ground," but, will it sell? does it pay? is it a success?

From the trial of this violet, I consider it a grand variety and wherever I have seen it, and with me it is perfectly healthy, very free of bloom, large full double flower, extremely fragrant and as dark colored as any Marie Louise I ever grew. My experience has led me to believe, that no flower grown by me is so influenced in color, by soil and treatment, as the violet.

For commercial florists it is a decided success: I cannot say for private places as I do not have such an establishment, yet I have seen the Lady Campbell growing at several private places in such fine condition and yielding magnificent bloom that I think the most severe critic would be compelled to acknowledge its excellence.

There is no question but that Mr. Huebner has true stock.

R. T. LOMBARD.

WAYLAND, MASS., Feby. 13, 1894.

Chester County Carnation Society.

The March meeting was held at the society's rooms at Kennett Square, Pa., on Saturday, 3d inst., with an unusually large attendance, particularly of the lady members and wives of members. For the committee on mid-winter exhibition, Mr. Styer reported all arrangements complete for the show to be held at Wanamaker's, 13th and Market streets, Philadelphia, March 9 and 10, all flowers to arrive on afternoon of 8th and be staged that evening.

Mr. Cartledge, of Pennock Bros., will have charge of the staging and decoration, which will be a guarantee of its success. The value of continuing the exhibition for a third day was discussed with the general opinion that if done a renewal of the flowers would be advisable and the growers were instructed to make shipments Wednesday and Friday, the show to be on Thursday, Friday and Saturday. Several letters were read from growers at a distance promising to send flowers for the exhibition. Jos. Phillips urged the importance of making a personal matter of the success of the show and felt that each person should do all he could towards that end. Exhibition cards will be provided on which will be placed the names of variety and grower.

C. J. Pennock and Sec'y Shelmire made reports on the Indianapolis meeting of the American Carnation Society, the former reporting an exceedingly interesting and instructive visit to Mr. Dorner's establishment at La Fayette. Secretary Shelmire reported the gold medal having been bestowed upon "The Stuart," grown by Mr. Dorner. The committee on medal were instructed to have the medal properly engraved and forwarded.

The display of flowers was fine, notably a vase of seedlings from R. Witterstaetter, Cincinnati, O., and P. Fisher & Co., Ellis, Mass. The former included a large and handsome one of Buttercup type and two in the way of Daybreak, also a good scarlet. Fisher & Co. showed Jacqueminot in excellent shape. Others were shown by Messrs. Walton, Larkin, Marshall, Moore, Love, Shelmire and Swayne. Mr. Balderston showed some fine Jack roses and gave some interesting details of his method of culture. A seedling bloom was shown that had been kept over from the February meeting four weeks ago and was still looking well although scarcely salable. It had been kept in the dark with several cuttings of the tip of stem.

E. Swayne in a humorous speech referred to the prophecy of Secretary Shelmire *after* the banquet at Indianapolis and displayed a grotesque dummy carnation which was christened "Shelmire's Dream," or "Great Cæsar's Ghost."

President Ladley asked for information about treatment of tomatoes as a second crop to prevent mildew. C. J. Pennock referred to the annual report of Delaware State Experimental Station which contains hints on tomato growing.

C. J. Pennock spoke of the circular sent out by the Philadelphia Florists' Club soliciting contributions for the entertainment of the S. A. F. and asked for liberal responses from the members.

Miss Baker made a plea for a flower exchange.

C. J.

How Many Flowers From a Plant.

ED. AM. FLORIST: How many blooms per plant per month can La France, Mermets, Brides, Perles, etc., be made to produce under ordinary circumstances?

Also how many blooms per month should each carnation plant produce under average culture? SUBSCRIBER.

The produce of rose plants is rather a conundrum, as, under certain conditions, some varieties will produce much better one season than they will another. A fair approximate estimate of the proportion of such varieties as La France, Mermet, Bride and Bridesmaid, may be taken at four to five buds per month the season round for each plant. For such varieties as Bon Silene, Cusin, Perle, Hoste and some of the other very free blooming varieties a fair approximate estimate would be six to seven and eight flowers per month. This is of course when the plants are in good, healthy, thrifty condition, bearing buds all the time. Possibly this will look a very small estimate to a good many, but I think if they figure it down one year with another and take an average from two to six years they will find it a fair estimate.

With reference to the number of carnations to a plant, that will vary immensely. Take such varieties as Lizzie McGowan from which you will get from seven to ten per month all through the season, while from some others if you get one-half that number, or even one-third of that per month from each plant you may calculate that you are getting a fair proportion of flowers. Then, again, many of the carnations do not bloom in the early months; for the first two or three months of the season they scarcely produce anything, notwithstanding they will produce immense quantities when they once start in,

say January or February, still the loss of count in the early months will very materially reduce their average proportion per month per season for space occupied in the house. JOHN N. MAY.

Plant Notes.

It is doubtless true that the enlargement of a local trade in plants greatly depends on the man who is conducting it, and while experiments are sometimes costly yet it will not do to avoid them altogether, and in the line of experiment some of the following plants may prove useful.

Nerinms: Some of the improved varieties of these plants are greatly superior to the old fashioned oleanders with which we are all familiar, but in order to bring these before the public in such a way as to attract attention, a few plants should be grown on into nice sized flowering specimens, and at the same time working up a stock of young stuff, so that when the large specimens are exhibited the dealer is prepared to furnish young plants to supply the demand that is likely to arise.

These plants are among the easiest to cultivate, for they may be grown in a frame during the summer, and in quite a cool house in the winter, while propagation is also readily accomplished by means of cuttings, the latter rooting quickly in sand with moderate bottom heat, or the cuttings may be placed in water in a warm house, the latter being a very old method for oleander cuttings and quite a successful one.

The varieties are now quite numerous to choose from, for some of the European growers have given much attention to the nerium within the past fifteen or twenty years, but in these experimental operations it is not well to overdo the matter, and three or four good varieties are quite enough to handle.

Among these should be the double white, N. alba plena, this being one of the best; Rose Double, a large flowered variety of a clear deep pink color; Splendens, a bright red double flowered variety; and N. Madonna grandiflora, the latter being a free flowering sort with very large semi-double flowers.

Hydrangeas: A few of the various forms of H. hortensis, in addition to H. Otaksa and H. Thos. Hogg have proved quite salable in some localities, and are no more trouble to grow than the ordinary varieties so largely used for Easter decorations. Of these H. cœrulescens is quite striking, the flower heads being very large and of a very bright blue; and H. stellata fimbriata is another pretty form, having white flowers in moderate sized heads, the individual flowers being prettily fringed around the edges.

The oak-leaved hydrangea is also a nice variety with white flowers, and the red-branched variety is another that is quite attractive.

There is also some demand for the variegated form of H. hortensis as a foliage plant, and it is a really handsome variety when in good condition.

The varieties here noted however, should not be recommended for permanent planting outdoors north of the latitude of Washington, D. C., for they are not reliably hardy, H. paniculata grandiflora being about the only thoroughly hardy hydrangea for northern shrubberies.

Some of the ornamental fruited Solanums, for instance, S. capsicastrum and S. ovigerum make good market plants, from the fact that they are rapid growing, and easy to manage and are quite satisfactory as house plants. These solanums are easily procured from either seeds or cuttings and only require a moderate temperature and plenty of nourishment in order to make a good showing.

Nertera depressa: This pretty little subject has I think been noted before in the FLORIST, but well deserves another reference. It makes such a charming little cushion of foliage, and when nicely grown is abundantly studded over with bright red berries, the berries nestling down among the foliage in such a way that its common name of "Bead plant" seems to be a very appropriate one. Division is the best method to increase this plant, and it may be well grown in a house suitable for geraniums, providing the nertera is given a little protection from the full sunlight. It is also well to take the precaution of not watering this plant overhead during dull weather, as it is sometimes given to damping off under such conditions. W. H. TAPLIN.

Dendrobium Euosmum, and its Varieties, Roseum and Leucopterum.

We have here three hybrids, all raised from Dendrobium endocharis fertilized with the pollen of Dendrobium nobile; all have a charm to which no description could do justice. Their exquisite fragrance, which is not equalled by any other dendrobe, brought forth the remark recently from an amateur orchid enthusiast when visiting here—"There is something about the fragrance of this orchid which appeals to my feelings as no other flower does,"—and the extreme pleasure with which he seemed to extract its odor time and again spoke more eloquently than words; it is indeed a bouquet of odors.

These hybrids were raised by Mr. Seden and flowered in 1885. The seed parent D. endocharis being a chaste hybrid of delicious violet fragrance, the result of a cross between D. Japonicum and D. aureum, therefore euosmum combines all the good qualities of three species. The flowers are not so large as Dendrobium nobile, as the plant is not of such robust habit, but the flowers are more numerous and closer set on the pseudobulb; the type euosmum has sepals and petals white tipped with pale rosy purple as is also the lip, the disc being maroon purple shaded white. The variety roseum is toned all over with rosy purple, which is much deeper at the apex. But of euosmum leucopterum too much cannot be written. The exquisitely formed sepals, petals and lip are snow white, the only coloring being the disc of lip, which is a pale Indian purple. It will be a pleasure when this particular variety gets sufficiently numerous to be within the reach of all orchid growers. It is of comparatively easy culture, the same treatment in every way as recorded to D. nobile being sufficient, only it will require a little extra care in the ripening period.

Dendrobium splendidissimum grandiflorum: This hybrid is supposed to be the same cross as Dendrobium Ainsworthi and Leechianum, but it is much superior in all its parts; in fact so far as I have seen it I consider it the noblest of the Aurea-Nobile crosses. The flowers are nearly four inches across, the whole bloom suffused with rosy mauve, the disc spreading over three parts of the lips of the richest Indian purple and bordered by a pale yellow zone. It requires the same general treatment as nobile, but care should be taken that the plants are not subjected to extremes in ripening the growth, being careful not to allow them to become too dry and shrivel. W. ROBINSON.

Among Chicago Growers.

GROWING CUCUMBERS UNDER GLASS.

George Miller's four houses of cucumbers are well worth a trip to Hinsdale to see. Such luxuriant growth in the cucumber vine we never saw before. Any number of leaves may be noted that measure 12 inches and over in diameter. The variety grown is Rollison's Telegraph.

The first house was planted with plants from 2-inch pots between Dec. 5 to 10. This house is in full bearing at the present writing, March 1. The first fruit was picked and marketed Feby. 16th and averages 16 inches in length, with some 18 inches and over, though larger fruit was grown a little later in the season last year which measured 21 to 22 inches. This variety is an enormous bearer. We counted in several places 15 cucumbers to the square foot. Of course the house will not average the same right through.

The last house was planted a month later, Jany. 11th. This shows fruit from 6 to 12 inches long and promises even better results than the first. This last house is 20 ft. wide and is planted with 4 rows, single vines 2 feet apart in the row. The other three are 11 or 12-foot houses with a walk in the center and bench on either side. One row about a foot inside of the wall of the house on each bench is planted in these. The vines are trained on wires stretched under the roof about 6 inches away from the glass. One imagines he is stepping into an arbor when entering any one of the houses, but look out and don't knock your head against an enormous cucumber. They hang down from the roof in all stages of growth, and remind you of a regiment of policemen's clubs. But don't be afraid of them, they are mighty good eating as we can testify.

Now let us ask George a few questions. We should like to know how he grows his "pets" as he calls them.

"As regards soil" answers Mr. Miller in response to our query, "I take one-half of a good clay loam such as you may find on my place and one-half cow manure. With this compost I fill my beds, drawing up the soil into slightly raised hills two feet apart, into which I plant the vines. I sow my seed in small pots and from these shift onto the benches as soon as the plants are strong enough. I allow but one plant to the hill and let the vine attain a length of 18 or 20 inches, when I begin to pinch them back. The pinching of the vines will have to be attended to constantly. If not you will have plenty of vine, but little fruit. One great advantage in growing this variety is that it sets the fruit without being fertilized, but no seeds are produced without resorting to fertilization, which renders the fruit all the more desirable for the table. The cucumber vine is easily scorched by the hot rays of the sun, and shading has to be applied as early as February. You will notice in one of the houses that some of the leaves look burnt; that is the effect of the sun before the house was shaded. The shading should be very light though; I use lead and linseed oil, which answers my purpose very well.

"Temperature? Well if you can maintain your heat as nearly at 70° as possible you will hit it about right; at any rate the house should never go below 65°.

"Do I feed? Certainly. You might suppose that a compost of ½ manure would be rich enough to grow them in, but I find that the vines can take a good deal more. I use liquid fertilizer in various forms at least twice a week. The result speaks for itself."



Scale
6 inches.

CARNATION MME. DIAZ ALBERTINI AS SHOWN AT THE INDIANAPOLIS MEETING.

New York.

Balmy spring weather has come but it has not brought much comfort to the wholesalers and their intimate friends, the growers. The demand has been very light and prices have gone down until now there is actually no price that is stable on anything in the flower line. While a customer may have to pay six or eight cents a piece for roses in dozen lots, when it comes to hundreds one-half of this rate will be gladly accepted and when thousands are handled fifteen dollars per thousand is considered a lucky find.

There is much complaint among the wholesalers regarding the difficulty in making collections. Not all the retailers are slow but those that are slow are very slow and in some cases large amounts are outstanding with nothing tangible in sight on which to base any hopes for future settlement. The method of these parties is to get credit as long as possible at one establishment and when finally pressed for settlement to show virtuous indignation and haughtily transfer their valuable trade to some other concern where they manage to go through the same performance again, and so they keep it up until they have gone through the entire list of wholesalers, with varying success, and when they come to the end there is scarce a wholesale dealer who could not join fervently in the darkey's chorus "Oh, it's hard, it's hard! W'en you don't get you' money w'en it's due." The only effective preventive of this sort of work would be a combination for mutual protection on the part of the wholesalers, but these gentlemen have not yet reached that advanced stage of mutual confidence and harmony and they will probably continue for some time yet as in the past to furnish the working capital for many a soap-bubble enterprize.

Mme. Caroline Testout as seen at Thos. Young's now is entitled to stand in the first rank as a spring rose. Kaiserin Augusta Victoria is also beginning to recover from its midwinter inactivity and some good blooms are coming in. Most of the dealers are receiving Jacqueminots in moderate quantities but there is no special demand for them and they go at small figures. Their greatest effect is seen in the market for Meteors, which have been given the cold shoulder since the Jacqs appeared and have to take their chances now with the "common stuff."

It is said that there is a new crop of fools every year. No doubt the "Bermuda Easter Lily" chaps are counting upon the truth of this proverb, for they are in the market with their circulars and prospectuses in greater numbers than ever. It will be surprising if they will ever realize the cost of the postage stamps. There is but little interest manifested yet by the trade in the cut lily supply for Easter, plants in pots only being considered of sufficient importance to be looked up in advance. From all indications the plant trade will in a greater degree than ever monopolize the larger part of the Easter demand. Julius Roehrs will be in with a large stock of plants. The houses which last fall were a mass of chrysanthemums are now filled with handsome azaleas, rhododendrons, lilies, genistas, hydrangeas, lilacs and metrosideros which are just bursting into bloom. Mr. Roehrs does not confine himself to established favorites but is constantly testing things which are out of the usual order. Tree peonies, Cytisus Andreanum, Staphylea colchica, and several species of prunuses are among the uncommon things to be seen there this year.

Mr. Roehrs is one of the few large growers who continues to force hybrids. Magna Charta, Luizet, Brunner and Rothschild are the varieties grown. Magna Charta is the favorite up to March, after which time it is not considered worth growing. The Luizets are a splendid success this season. They average five flowers to a plant and finer blooms have never been offered in this city. Brunner, Mr. Roehrs asserts, does not pay to force, no matter how fine the blooms may be, as it cannot be counted upon to throw more than one first-class flower to the plant. The large palm houses are made to do double duty, cattleyas being thickly hung from the roofs overhead. There has been an enormous crop of cattleyas there this season and there are plenty to cut yet. An electric road is being constructed connecting Rutherford with Hoboken and will run directly past Mr. Roehrs' place. It will be in operation the coming spring.

A small and very select party paid a visit to Bay Side recently on invitation of Mr. John H. Taylor. After lunch they were escorted through Mr. Taylor's extensive establishment arguing as they went along many an old disputed point, said points being in each case left where they were before, i. e. unsettled. Mr. Ernst Asmus was heard to remark that "it seems to me the more we learn in rose growing the less we know," a sentiment which no one presumed to contradict. To the eel worm question Mr. Taylor gave a new interest by saying, "I don't believe the eel worm is ever in the soil, I believe the man makes it." A house of Hostes which had been carried over a second year was criticised as being an unprofitable investment, and the superiority of young plants was strongly supported, but a set-back was received when Mr. Taylor called attention to a fine house of Brides which he said were four years old, to which Mr. Nash sagely responded "Well, that has a tendency to upset the theory." The Bridesmaids in the new houses built by Mr. Taylor last season are in splendid condition.

A call was made at the Cottage Garden greenhouses and the much-talked-of-short-span-to-the-south houses and their contents examined with interest. Mr. Ward was not at home unfortunately, so the visitors had to pilot themselves. Carnations Wm. Scott and Storm King were in finest health and vigor, the only fault seen in the latter being the distance between the blooms. As to the blooms themselves there can be but one verdict, they are superb. Michigan also came in for much admiration. Mme. Diaz Albertini while most vigorous and strong growing and bearing an enormous flower shows one great fault. The petals bleach out badly and their peculiar twisting gives the flower an appearance of age even when perfectly fresh. Mr. Ward's soil is quite light and sandy.

Mr. C. H. Allen was also visited and was found as always, genial and interesting. He has a fine lot of lilies for Easter but carnations are his main crop. A house of McGowans here may with safety be pronounced equal to anything of its kind in this vicinity. Wm. Scott is also up to its reputation. Edna Craig is badly diseased. Richmond throws a majority of defective blooms and will be discarded.

At Fred Storm's the main crop is American Flag and Portia. In reply to a question Mr. Storm said that Flag brings a small price in the market but it bears well and on this account pays. Here Edna Craig was found to be diseased while Wm. Scott in the same bed with it was perfectly clean. Thos. Cartledge also showed up well. New Jersey was badly bursted and pronounced a failure as seen here. Mr. Storm has one new house with the short span to the south. He remarked that he was well satisfied with it and when building again would build all his houses this way, with a three foot space

and concrete gutters between, to which Mr. Alex Burns responded with a grunt which "spoke volumes."

Chris. Butler's two rose houses at Bay Side are in grand shape. Mermets and Brides are the main crop and the back benches are devoted to Perles of which Mr. Butler says he has cut 15,000 the past season. If Chris. has Mermets, Brides and Perles as good when those houses are old as he has them this year he will come pretty near to beating the record.

The officers of the New York Florist Club held a meeting on March 2 and arranged for a number of very important matters to be brought up at the Club meeting on Monday, March 12. It is of vital moment that every member who can be present should come to the meeting. President O'Mara has made the following appointments for 1894: Executive committee, Messrs. C. H. Allen, Rudolph Asmus, A. L. Don, O. C. Wells and D. H. Roberts; exhibition committee, J. Forstermann, H. W. Wippermann, F. Dressel, E. Asmus (Short Hills), and E. Koffman; essay and publication committee, Sam'l Henshaw, G. W. Hillman and C. H. Joosten.

A. Herrman has leased the entire floor next above that occupied by the Cut Flower Market on East 34th street for a manufactory of metal designs and other florists' supplies. He has put in a set of dies and other machinery for the manufacture of metal foliage and the only material imported is the porcelain flowers, which come from France. The price on these goods has been greatly reduced and very pretty wreaths are now sold as low as $1 each and less. Those costing from 40 cents to $1 are in the largest demand.

Mr. Geo. Paulson of West Hoboken died at his home suddenly on the morning of February 25th. Mr. Paulson has conducted the greenhouses on the Weavertown Road since his father's death about three years ago. He was 39 years of age and leaves a wife and child. A number of florists attended the funeral on Tuesday, Feby. 27th.

On Tuesday afternoon, March 6th, Mr. Samuel Henshaw read a paper before the Farmer's Club at the rooms of the American Institute. His subject was "How to beautify our home grounds."

It is reported that "George the Greek" a prominent member of the street trade fraternity has leased a store on Broadway under the Coleman House.

Julius Roehrs is building a bowling alley which when completed he intends to dedicate in the most approved fashion.

G. Herrmann has issued a very tasty seed catalogue, printed in German throughout, for the benefit of his German trade.

James Purdy has made improvements on his wholesale store in 43d street, among which is a big sign which can be seen a block away.

The greenhouses belonging to Charles Krombach in Brooklyn were badly injured by fire and a fine Easter stock of plants entirely destroyed early on the morning of February 25th. Supposed to be incendiary.

Fire broke out early on the morning of February 24th in one of the large greenhouses of Wm. Boll at Jamaica, L. I. Loss on house and stock about $1,000.

Spring Exhibition of the United States Nurseries.

The annual spring exhibition at Short Hills has come to be looked forward to with much interest by all those who are so fortunate as to be able to attend. This year's show opened on Saturday, March 3d. The great central palm house with its forests of tropical plants and rows of stately tree ferns is made doubly beautiful by two banks of blooming orchids which extend the entire length on both sides, the whole orchid exhibition having been brought from the upper range of houses and concentrated here. There are cattleyas and cypripediums by thousands and in wonderful variety. Odontoglossums are shown in abundance also, many fine forms of O. crispum collected by Mr. Lager being in bloom now for the first time. On the big trunks of the tree ferns Odontoglossums Rossii in large quantity appears perfectly at home, and from the rafters are suspended dendrobiums, nepenthes, etc.

The various houses devoted to cycads, araucarias, ferns, dracænas, etc. are all well worthy of a visit, and many new and interesting species are shown. The seedling cannas, genistas, azaleas and other seasonable blooming plants make a brilliant show and crowds of visitors are expected all through the week.

Flatbush Florists' Bowling Club.

The annual supper of this popular organization was held at Bantel's Hotel on the evening of March 1. There were present besides the resident members of the club Messrs. Alex Burns, John Raynor, E. C. Horan, P. O'Mara, Julius and Theodore Roehrs, J. M. Keller, J. Forstermann, the AMERICAN FLORIST and the *Florists' Exchange*. The early part of the evening was spent in the bowling alley where almost everyone present took a turn at trying to hit the center pin. Small scores were the rule, however, although John Raynor came with an extra supply of muscle and a determination to smash the pins into kindling wood and others were inspired by the promise of a prize for the highest score, said prize proving eventually to be a pair of overshoes which Julius Roehrs had forgotten to take home with him on a previous occasion. But fun was in the air, everybody came for a good time and they got it.

On entering the supper room it was found to be beautifully decorated with laurel festoons and plants and on the table baskets of flowers. The plant decoration was the contribution of Chas. Zeller & Sons and was a most tasty arrangement of palms, lilies, cinerarias, azaleas and vincas. The baskets on the table came from Messrs. Dailledouze Bros., J. Austin Shaw and J. V. Phillips. Mr. Charles Zeller, the president of the club, presided. In welcoming the guests he spoke eloquently of the early days of Flatbush floriculture and of the peculiarly happy fraternal and social relations which had been fostered by the pioneers in the trade here and had been maintained and developed all through the thirty years that have passed since. He advised the young florists of Flatbush to adopt as their policy that of their predecessors and to see to it that harmony, companionship and fraternal feeling should always prevail to the exclusion of jealousy and selfishness. The old gentleman's enthusiastic remarks were uproariously applauded and it was evident that the Flatbush boys are very fond of their president, as they ought to be.

Everybody present was called up for a song, a speech or a recitation, but the speeches were short and indeed it would have taken a man with a great nerve to have attempted a formal speech in such a jolly company. There were quite a number of professedly very modest men present but no excuses were accepted and all had to respond with a word at least. The most noticeable fact was the absolute freedom from any allusion to business or trade matters of any nature, an example which might well be followed all over the country on such occasions, but which unfortunately is not in all cases.

A feature of the evening was the appearance of a magician, a Turk, who proved to be remarkably skillful in his peculiar line and created no end of fun by his manipulations of money, rings, handkerchiefs and mice, Mr. H. Kretschmar being enlisted as an assistant in the pronunciation of the various jaw-breaking phrases necessary to the success of the tricks. J. Austin Shaw read a poetical effusion prepared specially for the occasion, every verse containing some side-splitting local hit, and the very difficult feat of making rhymes for the names of all the members being successfully accomplished.

The illness of Mr. P. B. Meissner was alluded to and his health was proposed and drank standing. After the first restraint had begun to wear off, Mr. Forsterman discovered a piano in the corner of the room. That settled matters. Until far past the midnight hour chorus followed chorus and dealers in throat lozenges in that vicinity should have reaped a rich harvest on the following day.

Philadelphia.

Something in the nature of a sensation has been sprung upon the town in the statement that the large retail dry goods establishment of John Wanamaker is about to open a cut flower department. The air has been full of rumors for the past few days such as: "They would buy flowers in large quantities, get them cheap and sell without profit, and use the department simply as an advertisement"; "they were to sell loose flowers only, nothing made up"; "they were going to do a general florists' business, solicit trade, work cheap and smash things generally"; "they were going largely into plants and would play hob with the Easter trade," etc., etc. The statement has often been made that such a department was to be opened at this place and quite a number of florists and others have made overtures to the firm to rent space or sell and give a commission, but never with any success. Now, however, it is to be taken in hand by the firm and managed by Mr. Weber, the head of the millinery department. The flower stand or counter will be placed in the arcade or main entrance from Chestnut street, through which passes about 10,000 people an hour during the busy part of the day; 1,600 dozen artificial roses of one kind were sold there in a very short time by displaying them on tables, and the manager thinks a like success will attend his efforts in the cut flower line. A Phila. florist is to be in charge. Who is he? The department will only open for the present on Saturdays, when, if it proves successful, a full line of flowers each day and a general cut flower business will follow.

The effect this competition will have in the trade is discussed freely. Some see nothing to be alarmed about, others think it means a revolution of the business, as if it is successful other large combination stores will be compelled to open similar departments, and the retailer will then be pushed to the wall, as they can undersell him and make a profit on prices that it would be impossible for him to meet. Others think that the trade will



Scale
6 Inches.

CARNATION WILLIAM SCOTT AS SHOWN AT THE INDIANAPOLIS MEETING.

be mostly in loose flowers that can be had in quantity and sold cheap, and that this will have no more effect than the street fakirs of the present day. The manager says he has received numerous letters from growers and wholesale men who desire to supply flowers and plants. He says they do not intend to handle plants, as they are so easily damaged and difficult to deliver.

The carnation show of the Chester County Carnation Society is to be held at Wanamaker's in one of their special exhibition rooms in the third story of the building, so that these flowers will be quite high for a day or two at least.

Business for the past few days has been fair. The week opened with almost a blizzard and closed on Saturday with a lovely, balmy spring day, which brought the people out in droves and kept the boys hustling all day long. It was the busiest day of the Lenten season.

Flowers are plentiful, with a tendency to lower prices, although all good stock seems to go readily at the top figures; $6 to $8 is the ruling price for all the large teas, while the smaller stock moves lively at $3 to $4; Brunners are now to be had in quantity and the quality is A1; Anderson has two large houses and could almost supply the market himself for the next month, while Smith & Whitely, La Roche & Stahl, Burton, Heacock and others have now or will soon be cutting this rose; $5 per dozen is the price for good stock; how long it will stand when all hands begin their bombarding is a question. Burton has a few Baroness and is also cutting some of the finest Mermets ever seen in this market. Romans are very plentiful at from 1 to 2, valley 2 to 3, daffys 3 to 4. Carnations are plenty and sell from 75 cents to $1.50 for the best ordinary and 2 to 4 for the fancies.

The fakirs are generally accused of getting their stock at rock bottom figures, their stand being the last station next the dump, but even this record has been broken, as last Friday some of the fraternity tapped "Sam" Pennock's large icebox in the middle of the night and made off with a lot of Beauties, valley and other stock. They found the street door no obstacle and when inside there being nobody on guard except the carnations they had an easy time of it, as these worthies were all fast asleep. Sammy thinks he has his eye on the culprits.

Easter stock promises to be very fine. It would seem as if there will be plenty of lilies and of excellent quality. Messrs. Harris, Craig, Becker, Anderson, Griffin Bros. and Ball all have fine stock; some of it has never been done better. Hydrangeas, too, seem as if they would be very fine. Harris, Anderson, Becker and Griffin Bros. have fine stocks of this plant. There will also be a great many azaleas. Harris has the genista market to himself and grows this plant in all sizes to perfection. All the growers seem to be satisfied with the outlook and say they have booked orders as freely as in other seasons and at about the old prices, except for lilies, for which no one is asking more than ten, or at the most 12 cents per flower, and no charge for the plant. With everything else propitious it is to be hoped that "Old Prob" will do his best and help make Easter of 1894 a record breaker. K.

Chicago.

Continued warm weather and bright sunny days have greatly added to the abundance of stock. With the advent of fine weather the fakir too, is opening up in full blown glory. Every available street corner in the downtown district is adorned by him. The Greek from the standpoint of the legitimate dealer is regarded as a great nuisance, but to the grower and commissionman he is not an unmixed evil. A great deal of second class stock undoubtedly finds an outlet through his agency.

Stock of all kinds is very plenty. Beauties to be sure are getting shorter and shorter, but as hybrids are coming in more freely we do not feel the want of them so much as formerly. In hybrids Brunner takes the lead; some very fine blooms are noted on the Exchange; they bring all the way from $2 to $4 per doz.

Stielow is cutting some fair Diesbach and Laings, but the foliage is badly shriveled. "Carboline" is undoubtedly a good wood preserver but as regards flowers unless you wish to preserve them in a dried state, one has to be careful. Mr. Stielow painted the inside of one of his hybrid houses with this material just before starting the plants. The fumes ruined the foliage entirely although the flowers were not as much injured as at first feared. So if you follow Mr. S's advice, when you use carboline let it dry in thoroughly before putting the plants in the house.

Of the smaller varieties of roses the supply is slightly in excess of demand. As yet no great glut is apparent but if the weather should continue fine prices will probably take a further drop. Nominally such varieties as Mermets, Brides, La France and Albany are held at $4, and Perles, Gontiers and Niphetos at $3, but a great amount is disposed of for much less. Good Meteors rule firm at $4 to $6 according to quality.

Carnations are plenty, and of fair quality. Good long stemmed stock is offered at $1, and fancy at $1.50 to $2. At Corbrey & McKellar's we note some extra fine Tidal Wave. These flowers have been disbudded, cut with stems 12 inches and over in length, and sell readily at $2. Does it pay to disbud? is therefore a question that carnation growers should study.

Violets have taken a decided tumble. For the first time this season the supply is some days in excess of demand. A few good lots still bring $1, but the bulk goes at 50 cents to 75 cents. The bulk of the stock is of rather inferior quality, but J. Meyer and C. Northrup are still picking some very fine blooms. A few bunches of the Lady Campbell variety were seen on the market. As regards color we could not detect the slightest difference between it and the old Neapolitan. Mr. Tonner, who grows this variety in a small way, reports that the plants showed little or no bloom through fall and winter, but bloomed freely towards spring. Mr. T. also thinks that this variety is not subject to disease in the same degree as Marie Louise. He experimented and tried to infect the plants by dropping some diseased leaves from the latter sort among the plants, but no sign of a spot on any leaf has appeared yet.

Little change is noted in bulbous stock. Tulips are of better quality. Kaiser Kroon, Cottage Maid, Crown d'or and Tournesol are fine, but find a slow sale; $3 to $4 are the top figures. Valley, hyacinths and daffs are quoted the same as last week. Harrisii has slowed down again and sells at 4 to 6.

Much speculation is indulged already as regards Easter stuff, but as the matter is generally very capricious at this season of the year, it is rather difficult to figure out the result. If the weather between now and Easter should be at all favorable the cut of lilies will be large, and all other kinds of flowers promise to be plentiful.

Corbrey & McKellar will leave the Exchange shortly and remove to their new quarters on the second floor of No. 66 Wabash Ave. The increasing business of this firm made this move necessary. Mr. Corbrey, the senior partner of the firm, having severed his connection with the retail and greenhouse business, will devote his whole time and energy to the commission trade.

Mr. George Piepgrass, for many years connected with M. Olsen, now Olsen & Hughes, will open up a commission business on the second floor of the same build-

ing, No. 66 Wabash. George has a large acquaintance and is a general favorite with the retail boys, and will undoubtedly make a go of it.

Mr. Wm. Hamilton, of Allegheny City, Pa., spent a few days in the city last week.

O. J. Friedman opened up his branch store at 105 State street last Monday, with a fine stock of flowers.

Ottawa, Canada.

It has been generally admitted by people who know that there are more gardeners and florists, horticulturists and arboriculturists to the square mile in Ottawa, and within the radius of an extended vicinity of Canada's capital city than anywhere else on top of this mundane sphere of ours. To begin with, as an instance, there is the vast Governmental Experimental farm of nearly 1 000 acres, where soils, seeds, manures, propagators, results and productions, as well as profits, are calculated to a veritable science, of everything that is worthy of the name of flower, fruit, vegetable, grain or tree. These are all open to public inspection the year round, and the system is doing a vast amount of good.

Ottawa is purely a society city during winter, and more especially while the House of Commons is in session. Then there is a great demand for flowers and decorative table plants—flowering and foliage, vases, baskets and bouquets. The order of the day among the festivities incident to the opening of parliament are Vice Regal receptions in the senate chamber, and at Government House, by Lord Aberdeen and his estimable lady; at-homes, balls, private fashionable receptions in emulation of vice royalty, private parties, weddings and a host of other things of the kind. These functions and ceremonies always make a drain upon the supply of flowers in the city and as a result outside aid has to be called in, principally from Chicago and New York, for the more expensive cut blooms.

This year parliament opens on March 15th by Lord and Lady Aberdeen in person, and as both are passionately fond of flowers, and as it is unusual for parliament to be opened in person of the lady of the Governor-General as well as by His Lordship, a great floral display has been ordered. Here Chicago again comes in. Her ladyship's dress is being made in Paris. The train will be 20 yards long borne by a score of gilt edge pages. The floor of the chamber will be strewed with exotics and her Ladyship has ordered from Chicago an almost unlimited quantity of orchids, and as oncontoglossoms and cypripediums are her favorites, these are likely to be scarce in the so-called Windy City for some months to come. She is a deep admirer of orchids like her Queen and Joe Chamberlain, M. P.

The range of houses at Government House are a source of pleasure to the vice regal household and visitors, but they are much too limited, are not supplied as one would expect and are said to be ill-heated. They are under the management of the popular Mr. James Sorley, ex-president of the Gardeners' and Florists' association of Ottawa, and it may rest assured what is undone is through no fault of Mr. Sorley. He is a fine fellow, getting up in years, but an ardent floriculturist. What he does not know is not worth learning around here, and when Rideau Hall knows him no more it will be hard to fill his place.

The House of Commons nurseries and greenhouses, also the bedding plant department, are under the care of Mr. Nathaniel Robertson, and it may go without saying are in careful hands. He is strong in decorative plants; has a fine show of heaths, azaleas, palms, ferns, dracænas, crotons, etc. After the session is over he will likely be in the market to buy.

The principal retail florists are Ex-Ald. Scrim, who has a fine flower store on Sparks street; and Harry Parks, secretary of the G. and F. club also on Sparks street. Scrim has a magnificent range of extensive houses on Bank street whilst Parks has his houses in the suburb of New Edinburgh. Both are excellent fellows and doing splendid business summer and winter. They are both looking after consignments of seeds just now.

There is a great demand for the auricula in Ottawa district just now. Undoubtedly for bedding purposes the climate may be slightly against its success, but apparently our amateur and professional growers are not in love with the experiment either under glass or otherwise. The same may be said of pansies of which there is not one single correct specimen.

The Ottawa *Free Press* of Friday says there is likely to be trouble among the horticulturists of the city over the appointment of one or two gentlemen to the directorate of the Central Canada Fair Association, the annual meeting of which was held this week. While the meeting was in progress the chairman warmly congratulated the Gardeners' and Florists' club for the great sympathy and interest they had shown in the success of the annual Fair and thanked them for the valuable assistance they had rendered in decorating the horticultural and floral department of the Fair each year. Then the election of the officers and directors took place and one prominent florist of the city declared afterwards that it was all hole and corner work and that the club or a large percentage of it would withdraw future support.

Mr. James Walkins will read another essay on Cacti before the Gardeners' and Florists' association at the next meeting. This will be the fourth paper previous to pamphlet form. M.

St. Louis.

The weather for the past week has been exceptionally warm for this season of the year and has had the effect of opening the stands in Union Market devoted to the sale of blooming plants. Its effect on the shipping trade in plants has not as yet been noticed; the shipping so far this season has been a long way behind that of last year, the principal cause assigned being the cold weather which prevailed until recently and which was felt more or less severely all through the south and west tributary to St. Louis. Should the warm spell continue it will effectually stop the shipping of cut flowers, as it will be impossible to have them arrive in good condition. The market trade does not open as well as could be wished; only about half as much stock can be disposed of as was sold during the corresponding time last year. Cut flower trade still continues fair, there being several affairs during the week that pretty well cleaned stock up. Callas and Harrisii are, however, at present a drug and hard to dispose of.

Florists are all looking forward to Easter and are out after stock for that occasion. Violets are in demand, but no grower likes to accept definite orders for that time, for if the present weather continues much longer the spring crop will be over in short order.

The committee appointed by the Florists' Club to examine into and report upon the advisability of continuing the chrysanthemum show held a meeting during the week. After viewing the matter from various points it was decided to advise the continuing of the show, provided certain arrangements could be had from the Exposition Association which would give the club a greater share in the receipts, and this arrangement will be made one can state almost positively. All interested in growing plants can now buckle down to work, as it was also the unanimous opinion that the prizes will be increased to such an extent as to be worth working for.

The last meeting of the Bowling Club wound up the third series of twelve games that have been played during the winter and was one of the best attended and most enjoyable of all. Mr. Harry Young managed to retain his lead as lucky man with 258 pins to his credit, although at one time the excitement ran high when Mr. C. A. Kuehn promised to lead this record by one pin. Mr. Jules Benecke takes the medal for averages, having an average of 189¼ for twelve games.

Stacius Kehrman, Sr., assignee for the Elleard Floral Co., has issued checks to parties whose claims have been allowed against the firm; the settlement is on the basis of 23%.

The Rissin Floral Co. had quite a scare lately owing to a fire occurring in the premises above their store; there was very little damage done, however, it being principally by water. R. F. T.

Baltimore.

The club had a great meeting Monday night. There has been a committee appointed for the purpose of providing a little music or oratory to enliven the meetings occasionally, and they secured Mr. Chas. Feast for this time. He gave a very enjoyable little program of piano music, beautifully rendered, which won the hearty applause of all. After the instrumental there was a call for vocal music and two members of the committee started out to escort the bashful and retiring members who were supposed to have the gift of song to the piano. Having exhausted arguments and persuasion on one of our heavy weights, they, after a struggle, lifted him bodily from the floor and conveyed him across the hall. All in vain. "You may lead a horse to water, but you can't make him drink." The next attempt, upon a lighter man, resulted more satisfactorily as regards singing, though at as great a cost of muscular exertion. Then the ice was broken, and Herman ("Frenchy") sung the "Marseillaise." Hantske followed with "Wacht am Rhine; and as a grand finale all joined in "Auld Lang Syne" and "Sweet Home." The work of the entertainment committee was voted a great success.

As the next meeting will be election night, steps were taken to make the attendant banquet a success, appointing committees of invitation, etc. The banquet will be held in the building where the club meets, and a full attendance of this club is looked for, the committee in charge having been at great pains to insure a "feast of reason and a flow of soul," as well as the grosser digestibles usually provided.

Trade is not such a howling success as it might be at this season, but there is some consolation in thinking it might be worse, and almost every other trade is at as low an ebb.

Violets are beginning to be somewhat of a glut, wholesalers seeking buyers at thirty cents and at least one retailer selling to all comers at fifty cents per hundred. Callas are very plentiful at seventy-five cents per dozen. Good roses hold their own as yet, but a little more fine weather will bring them down too.

Mr. Jno. Wiedey is not so seriously ill as was first supposed.

Mr. Rob't J. Halliday is at Ocean City.

MACK.

NEW ORLEANS.—The New Orleans Horticultural Society will give its seventh annual exhibition March 29 to April 1 at Washington Artillery Hall. Copies of the premium list may be had on application to the secretary, Mr. Paul Abele, Dufossat and Dryades Sts.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As all round florist; growing roses, carnations, general stock, ferns, palms, etc.; 18 years' experience. R S, care Am. Florist.

SITUATION WANTED—Commercial or private place. Good references for character and experience. American, single, age 31; 8 years' experience. Object promotion, near Chicago preferred. Lock Box 215. Oval City, Stark Co., Ohio.

SITUATION WANTED—By gardener and florist; middle aged, married, one child, as foreman on private or commercial place; life experience in cut flowers and general stock raising. References. Address Box 275, Hinsdale, Ill.

SITUATION WANTED—By a practical florist and grower of cut flowers and plants; 12 years' experience in U. S. and Europe; competent to take full charge. Good reference. Northern part of Illinois preferred. State wages. Box 203, Fremont, Neb.

SITUATION WANTED—By gardener and florist; married, no family; English; 17 years' experience; well up in growing roses, carnations, violets, chrysanthemums, and general stock of plants. Private or commercial; age 34. Good references. Address J D, 847 West Main St., Waterbury, Conn.

SITUATION WANTED—By a married man, age 32, one child, in a private or commercial place; 20 years experience as propagator and grower of palms, ferns and general florist stock; or would take charge of gentleman's estate. Southern States preferred. Please state wages. G. STANLEY, Windsor, Alachua Co., Fla.

WANTED—No. 1 man to grow cut flowers, roses, carnations. Address J, care J. C. Vaughan, Chicago.

WANTED—A good rose grower and propagator with knowledge of mushroom culture. State wages. Address CANADA, care of Am. Florist.

WANTED—A single man for palms and ferns; one that can be of occasional use in retail store. Address H. F. HALLE, 548 W. Madison St., Chicago.

WANTED—Greenhouse assistant; young man with some experience and intelligence. State references and wages with board per month. Address Box 353, Middletown, N. Y.

WANTED—Young man who has had at least 2 years experience at greenhouse work. Reference required from last place employed. Address STATION L, Tacony, Phila., Pa.

WANTED—Foreman for commercial place; must be a practical florist, with years of experience as grower in general. Address IRA G. MARVIN, Wilkes-Barre, Pa.

WANTED—A man who is a good rose grower, for a commercial place—married man preferred. Send copy of reference from last place. Address P. CONNELLY, P. O. Box 230, Madison, N. J.

WANTED—Gardener experienced in growing roses, carnations, and general stock of plants. Two houses. Must be good worker, and sober. Good references required. State wages. Address Box 1124, Rockland, Maine.

WANTED—A first-class working foreman to take charge of 20,000 feet of glass, and grow roses, carnations and general stock. Applicants please forward references, and state wages expected. W. L. MORRIS, Des Moines, Iowa.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man. WILFRED A. BROTHERTON, Rochester, Mich.

TO LEASE—Hot-house in Brooklyn, 15 minutes from New York City ferries, 20x200 feet. Good light and heat. Ample grounds. Address E T F, 316 West 23rd St., New York.

FOR SALE—One Kroeschell hot water boiler 4x12; 4 years in use. Also about 4000 feet 4-inch pipe. ART FLORAL CO., 3911 Cottage Grove Ave., Chicago.

FOR SALE—Four greenhouses, well stocked, with very valuable piece of ground, reason for selling old age. Address WM. SPRINGBORN, Dubuque, Ia.

FOR SALE—Seed business; one of the finest locations in large city. Stock light. A dead bargain to cash buyer. Address B, care American Florist, Chicago.

FOR SALE—The fine greenhouse property on Doan St., Glenville, Ohio; 4 miles from the center of the city of Cleveland, O. A great bargain to quick buyer. DAVID MORISON, 87 Public Square, Cleveland, O.

FOR SALE—Best opportunity to make money ever offered. A first-class florist establishment, and the only one in one of the best college cities, with over 6,000 wealthy people. Splendid cut flower trade all the year. Everything new, with big stock of plants for spring sale. Write for particulars at once. Don't miss this chance. G J, care American Florist.

FOR SALE—Four greenhouses, of about 4000 square ft. of glass, heated by hot water; about 150 sashes, about 1000 square feet of glass loose in boxes; 800 feet of 4-inch pipes, valves, etc. About 25,000 tuberose bulbs (Pearl). The greenhouses are filled with all kinds of the best selling pot plants to bed out in the spring. Stock in first-class order. Winton Place is a nice suburban residence of Cincinnati. The business is at the Spring Grove Cemetery—it's the largest and prettiest in the state. I am at the C. H. & D. and near the C. W. & B. R. R. station; also street car accommodation. No other florist around. Owner of place will give buyer a lease. Rent reasonable. Reason of selling is because I wish to build upon my own ground (a few miles west of here). Buyer can have possession of place at once. Will sell reasonable, for cash. Also large stock of violets. For particulars address H. SCHLACHTER, Winton Place, Ohio.

FOR EXCHANGE.

A modern apartment building in Hyde Park, Chicago, (4) buildings detached all or part, for a Greenhouse plant to be taken down and shipped or to run wherever located, if location suits, or for nursery stock an equity of $18,000, will assume some or pay difference in cash.

F. N. PERKINS, Kenton, Ohio.

FOR SALE. AT A BARGAIN.

Conservatory 20x30 exhibited by us at the World's Fair.

JOHN C. MONINGER, 297 Hawthorne Ave., CHICAGO.

SEND ADVS. NOW FOR OUR SPECIAL SPRING NUMBER TO BE ISSUED MARCH 22.

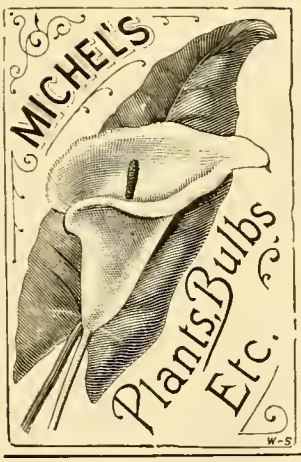
10,000 ROSES.

PERLES, BRIDES AND MERMETS,

Strong, healthy plants from 2-inch pots, $3.00 per 100.

H. E. WILSON, Florist,

88 East Main St., ROCHESTER, N. Y.



Write for Wholesale List.

MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

TUBEROSES. . .

DOUBLE EXCELSIOR PEARL.

Selected large bulbs, 4 to 6 inches in circumference.

IN ANY QUANTITY.

Orders booked now for present (weather permitting) or future delivery.

Per 1000 $8.; in 5,000 lots, $7.50 per 1000; in 10,000 lots, $7. per 1000.

PITCHER & MANDA,

United States Nurseries,

. . . SHORT HILLS, N. J.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms, **ORCHIDS,** Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

Mention American Florist.

ORCHIDS SUITABLE FOR THE TRADE

The Leading kinds for cut flower purposes.

I. FORSTERMAN,

NEWTOWN, L. I., N. Y.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants.

A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich St., New York City.

VERBENAS—MAMMOTH, to color.

Very clean and strong, look like seedlings, bright colors, transplanted cuttings $1.00 per 100; strong rooted cuttings $6.00 per 1000; ready any time. All come again that have bought once. Cash or C. O. D.

W. B. WOODRUFF, Florist, Westfield, N. J.

When writing to any of the advertisers on this page please mention the American Florist.

Toronto.

An improvement in the plant trade is reported this week which I suppose may be accounted for by the mild weather and thoughts of approaching spring. The street peddlers are able to get out again too with their patent pocket, portable, two-wheel hothouse, and the unwary housekeeper appeared to be catching on to their "all a growin' and a blowin'" wares to a considerable extent.

With reference to keeping cut carnations, discussed at Indianapolis, I may mention that at our last chrysanthemum show we found that they and in fact all the cut flowers kept very much better than in former years by moistening the floor now and then and by heating the hall only to the lowest possible degree compatible with comfort. Most of the carnations were as good on the fourth day of the show as on the first.

J. H. Dunlop is still a firm believer in the short-slope-to-the-south system. The roses in his three houses built last year in that style certainly look wonderfully well and thrifty and have a big crop coming on now, but as a casual observer I cannot say that I could actually see much if any difference between them and those in the old style houses. But Mr. D. says the quality of the blooms is better and that the plants are more prolific.

Staphylea colchica is beginning to be talked about I see. It is a very pretty thing, fine for forcing. I saw it at Transon's nurseries, Orleans, France, 16 years ago, where they were then propagating it very largely. E.

NEW PLANTS
OF STERLING MERIT.
ROSE MRS. W. C. WHITNEY.
CHRYSANTHEMUMS:
Yellow Queen, Achilles, Malmaison, Mayflower, Minerva and Titian,
and all other really good things in this line.
JOHN N. MAY,
SUMMIT, NEW JERSEY.

ROOTED CUTTINGS.
Brides, Cusins,
Bridesmaids, Niphetos,
Meteors, Perles,
Hostes, Beauties,
Mermets, Testouts, La France.
Address for quotations
T. W. STEMMLER,
Villa Lorraine Roseries, MADISON, N. J.

Forcing Roses.
A stock of the best varieties always on hand.
M. A. HUNT, Terre Haute, Ind.

Send
Advertisements NOW
...FOR OUR...
SPECIAL SPRING NUMBER,
TO BE ISSUED MARCH 22.
American Florist Co.

YOUNG ROSE PLANTS
We offer the following very choice Plants in 2 1-2 in. pots.

	Per 100.		Per 100.
Am. Beauties,	$6 00	Mermets, -	$3 50
La France, -	3 50	Perles, - -	3 50
D'ch of Albany,	3 50	Wootton, -	3 50
Brides, - -	3 50	Papa Gontiers,	3 50
		Meteors, - -	3 50

The above stock is very strong and healthy, and propagated from selected wood. We raised the above to grow for ourselves, and it will give better satisfaction than stock which has been raised simply to sell.

CARNATIONS, ROOTED CUTTINGS.
Daybreak..... per 1000 $15.00
Tidal Wave..... " 10.00
Silver Spray..... " 10.00

REINBERG BROS.,
51 Wabash Avenue, CHICAGO.

HOW TO GROW CUT FLOWERS.
A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00.
M. A. HUNT, Terre Haute, Ind.

Must be Sold. . . .
5,000,000 HARDY CUT FERNS.
Price to suit the times.
SPHAGNUM MOSS in quantity, 50 cents per bbl.
H. E. HARTFORD, 18 Chapman Place, BOSTON.

200,000 ROSES 200,000
Hybrid Perpetuals, Hybrid Teas, Teas, Polyanthas, Climbers, and all grades at Lowest Prices. . . .
SEND FOR CATALOGUE AND PRICES.

CUT SMILAX FOR EASTER.
THE NATIONAL PLANT CO.,
Dayton, Ohio.

100,000 Roses Ready Now
All sizes 2, 3 and 4 inch pots, best varieties. Also all kinds of Bedding Plants, Palms, &c. Will be pleased to receive a List of Your Wants, and quote Lowest Figures.
Wholesale Catalogue Mailed to Florists.
We have an immense stock in best of condition, and guarantee satisfaction and low prices. Address
NANZ & NEUNER,
LOUISVILLE, KY.

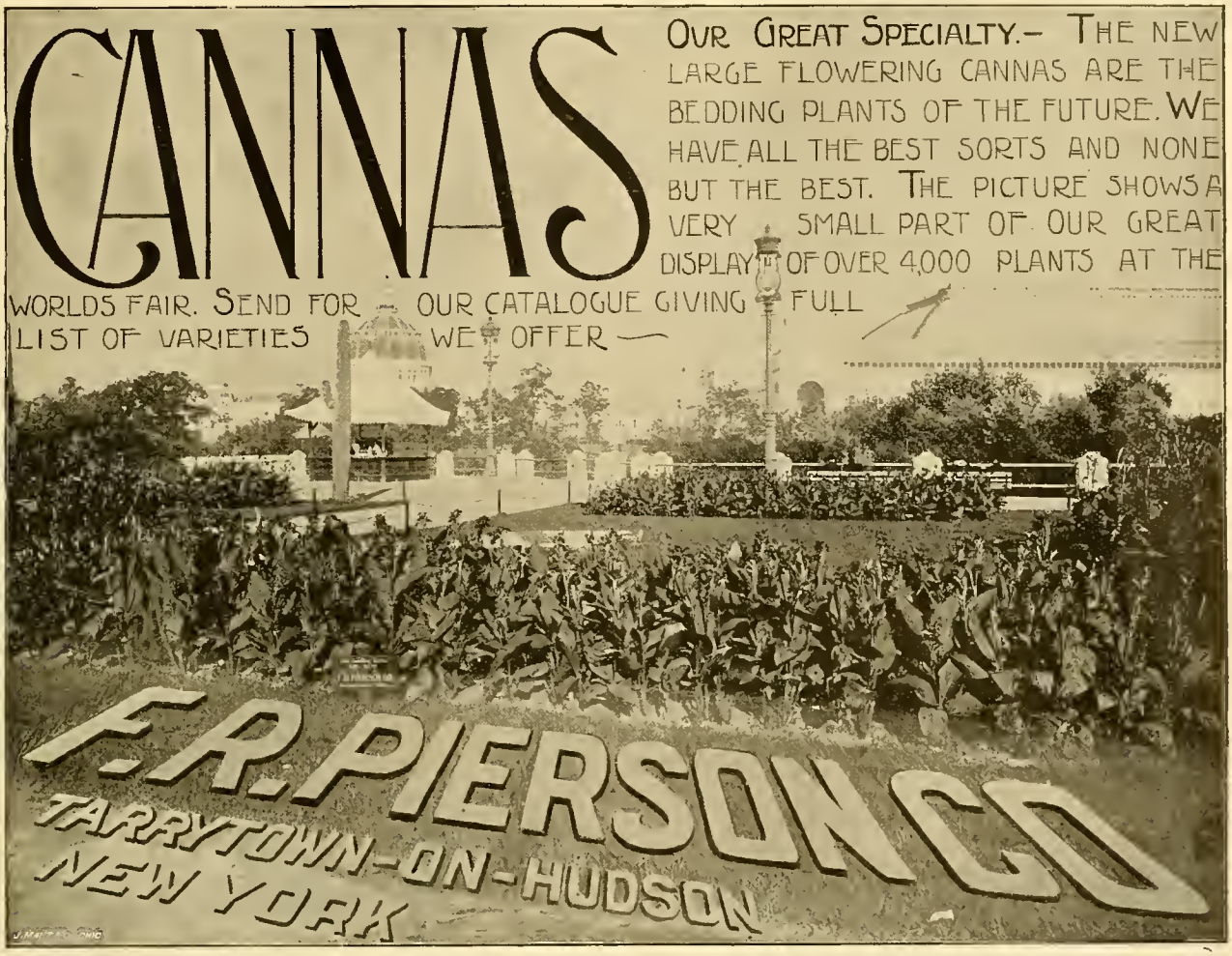
FORCING ROSES
VERY STRONG STOCK, well rooted, and especially adapted for pots, very best varieties of forcing roses, as: Capt. Christy, La France, Fisher Holmes, Van Houtte, Marie Baumann, Alfred Colomb, Ulrich Brunner fils, Grace Darling, Gloire de Dijon, Magna Charta, Gen. Jacqueminot, Baronne de Rothschild, Merveille de Lyon, etc., $10 per 100 for cash, postpaid Hamburg excl. embalting. L. TIMM & CO.,
Elmshorn, Holstein, Germany.

THE GREAT ANTIPEST.
For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
251 Amity Street, FLUSHING, Queens Co., N. Y.

Wild Smilax, Pines and Palmettos
FOR DECORATIONS
AT LOW FIGURES.
Low freight rates by steamer to New York, Boston, Philadelphia and Baltimore.
A. C. OELSCHIG,
SAVANNAH, GA.

ROSES and BULBS.
Hybrid Perpetual, large stock, leading sorts, $8.00 per 100.
Moss, in 10 best varieties, $8 per 100.
Climbing, Prairie Queen, Bali, Belle and Gem of Prairies, $6.00 per 100.
ROSES all strong field grown.
Caladium Esculentum, 5 to 6 in. in circumference, $3.50 per 100; 6 to 7½ in., $5.00 per 100; 7½ to 10 in., $7.00 per 100.
Tuberoses, tall double and Pearl, 4 in. and up in circumference, $1.00 per 100; $8.00 per 1000.
STORRS & HARRISON CO.,
Painesville, Ohio.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.



MR. GONZALEZ IN JAPAN.

Mr. Gonzalez of the **firm** of **F. Gonzalez & Co.,** of San Francisco, for the past two months has been traveling and collecting the finest and rarest stock of **Japanese Plants,** bulbs, etc., etc., that can be had in **Japan.**

He will return with stock on or about **February the 27th,** when he will be prepared to supply **all orders.** His twenty years experience in the importing business insures to all that his selections are carefully and well made. He understands the natural habit and growth of every plant of note or worth of **Japan,** as well as the pleasures and whims of **American fanciers.**

The fair dealing, the superior stock, the careful attention giving to **packing** and **shipments** by **Mr. Gonzalez's** firm secures for him the enjoyment of a steady and ever increasing trade.

Persons contemplating handling **A No. 1** stock will do well to communicate early with

F. GONZALEZ & CO., Wayne and Crescent Ave., San Francisco, Cal.

COLEUS. COLEUS. COLEUS.

Rooted Cuttings.

And we are giving them away, Golden Bedder, Golden Queen and Crimson Verschaffeltii, at $6 per 1000. Other varieties, our selection, at $5 per 1000.

AGERATUM, blue and white	$.75	per 100
FUCHSIAS, the leading sorts	1.00	"
The same from flats	1.25	"
PETUNIAS	1.50	"
HELIOTROPE, 4 varieties	1.00	"
SALVIA SPLENDENS	1.00	"

Cash must always accompany the order.

J. E. FELTHOUSEN,
370 Van Vranken Ave., SCHENECTADY, N. Y

Verbenas

SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" " rooted cuttings,	1.25	10.00
General collection, named, " "	1.00	8.00
" " " 2¼-inch pots	2.50	20.00

Send for price list of Carnations, Chrysanthemums and other florist stock.

WOOD BROTHERS,
Fishkill, N. Y.



4,000,000 EVERGREEN CUT FERNS

ESPECIALLY FOR FLORIST'S USE.

$1.25 PER THOUSAND FERNS.

IN LOTS OF 5000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

L. B. BRAGUE, Hinsdale, Mass.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

SEEDS Rarest newest, cheapest Carnations. Picotees from 100 best named kinds 50c; 400 sorts $1; 1000 sorts $3. all pot grown. Greatest variety in Europe. Be astonished; get list, will pay you. No such value.

A. BROUNT, Crowboro, Sussex, England.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

W. K.—The orchid flower you send is a phajus of the grandifolius type.

PREPARE your advs. now for our annual spring number to be issued March 22. It will be a beauty and will go to every florist in America.

ALL ABOUT SWEET PEAS, written by Rev. W. T. Hutchins and published by W. Atlee Burpee & Co., has been revised and enlarged this year. The cultural matter is of much value, and this little book will be found of interest to all growers of this popular flower.

THE Society of Indiana Florists has issued an advance premium list for its eighth annual chrysanthemum show, to be held at Indianapolis November 6 to 10. Copies of the list may be had on application to Wm. G. Berterman, Sec'y, 37 Mass. avenue, Indianapolis, Ind.

THE Idlewild Greenhouse Co., Asheville, N. C., send us a fine bunch of the double white violet. The blooms were of large size and perfect in form. They were as good specimens as we have seen. But we confess we are not partial to white violets. A violet that is not blue has lost one of its principal charms for us.

THE BEAUTIFUL FLOWER GARDEN, by Mr. F. Schuyler Mathews, is one of the most recent horticultural books published by W. Atlee Burpee & Co. Mr. Mathews is well known to readers of the FLORIST by occasional articles on color harmony and taste in decoration. In the little volume now under notice he discusses color effects in the garden, and also has something to say about garden outline, the whole being embellished by numerous illustrations. Cultural directions are added by Mr. A. H. Fewkes, making the book a handy volume for garden amateurs.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

J. B. DEAMUD & CO.,
45 LAKE STREET,
Telephone Main 223. (Cut Flower Exchange.) CHICAGO,
Wholesale Cut Flowers.

We have superior facilities for furnishing fresh cut stock, this as all florists know, is of the utmost importance.

Our Roses are unsurpassed, and our prices as low as good stock can be sold. We endeavor at all times to please our customers, and any orders placed in our care will have prompt and careful attention.

OUR MAIN SPECIALTY IS
American Beauties, of which we have the finest stock in the market.

NOTICE TO CUT FLOWER BUYERS.

Our aim is to fill our orders complete at all times, particularly when stock is scarce rather than when there is a glut, as anyone can fill orders when stock is plentiful. Favor us with your trade and we will hustle at all times to fill your orders complete, and with the very best stock the market affords. We always give our buyers the benefit of the market when glutted, in making lowest possible prices, and nothing but selected stock.

All orders by Telegraph, Telephone or Mail given prompt attention, properly filled, and shipped on time.

CORBREY & McKELLAR,
Phone 4508. 45 Lake St., CHICAGO.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PECK & SUTHERLAND,
Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.
New England Agent for the GREAT ANTIPEST.

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WHOLESALE CUT FLOWERS,
495 Washington St., BUFFALO, N. Y.
SHIPPING ORDERS CAREFULLY ATTENDED TO.
OTHER SPECIALTIES:
Florists' Supplies, Wire Designs, Bulbs, Long's Florists' Photographs (see large ad.)
Catalogues, Lists, Terms, etc., on application.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

Wholesale Florists
The LaRoche & Stahl Flower Co. Limited.
N. E. CORNER
13th & Chestnut Sts.
PHILADELPHIA.
Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
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Philadelphia, Pa.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.
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WHOLESALE FLORIST
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WHOLESALE CUT FLOWERS.
SEEDS, BULBS AND ALL FLORISTS' SUPPLIES.
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34 & 36 RANDOLPH STREET, CHICAGO.
WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.
WIRE WORK A SPECIALTY.
General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.
Agent for finest grades Waxed and Tissue Papers.

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WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
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Olsen & Hughes,
WHOLESALE CUT FLOWERS,
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Tel. Main 4786. Consignments Solicited.

JOHN YOUNG,
Wholesale Florist,
53 West 30th Street, NEW YORK.
☞ Send for quotations on Choice Stock.

WHOLESALE FLORISTS
JOBBERS IN FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.

LET US book your order now for a copy of our new trade directory and reference book to be issued this month. Price $2.

Wholesale Markets.

Cut Flowers.

NEW YORK, Mar. 6.

Roses, Perle, Cusin, Watteville	2.00@ 4.00
" Meteor, Mermet, Bride	3.00@ 5.00
" La France, Bridesmaid	3.00@ 6.00
" Beauty	5.00@50.00
" Hybrids	10.00@35.00
" Jacq	3.00@10.00
Carnations	.75@ 2.00
Mignonette	2.00@ 8.00
Violets	.35@ .75
Hyacinths, Valley	1.00@ 2.00
Daffodils, Tulips	2.00@ 3.00
Harrisii	3.00@ 6 00
Smilax	6.00@12.00
Adiantum	1.00
Lilacs, per bunch	.50@$1.00

BOSTON, Mar. 6.

Roses, Niphetos	3.00
" Gontier	4.00
" Perle, Sunset	5.00@ 6.00
" Bride, Mermet	6.00@16.00
" American Beauty	6.00@40.00
Carnations	2.00@ 3.00
" fancy	3.00@ 4.00
Lily of the valley	1.00@ 3 00
Roman Hyacinths, Freesia	1.00@ 1.50
Trumpet narcissus, Daffodils	2.00@ 4.00
Callas, Harrisii	6.00@10.00
Mignonette	2.00@ 8.00
Violets	65@ 1.00
Pansies, Myosotis	1.00
Tulips	2.00@ 4.00
Adiantum	1.00
Smilax	12.50
Asparagus	50.00

PHILADELPHIA, Mar. 6.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watteville, Hoste	3.00@ 4.00
" Bride, Mermet, La France	6.00@ 8.00
" Kalserin, Bridesmaid, Testout	6.00@ 8.00
" Belle, Beauty	10.00@35.00
" Laings	20.00@25.00
" Brunner	30.00@40 00
" Jacqs	12.50
Carnations, H. Keller	6.00
" Ophelia, Sweetbrier, Daybreak	2.00@ 3.00
" Edna Craig	2.00@ 3.00
" good assorted	1.00@ 1.50
" good per 1000	7.50@10.00
Valley	2.00@ 3.00
Romans, Paper white	2.00@ 4.00
Daffodils	3.00@ 5.00
Smilax	12.00@15.00
Adiantum	1.00@ 1.50
Violets	.50@ 1.00
Mignonette	1.50@ 2.00
Asparagus	50.00@75.00
Harrisii lilies	10.00@12.00
Callas	6.00@ 8.00
Freesia	1.00@ 1.50
Tulips	4.00@ 5.00
Cattleyas	40.00
Orchids	15.00@40.40

CHICAGO, Mar. 7.

Roses, Perle, Niphetos, Gontier	3.00
" Bride, Mermet, La France	3.00@ 4.00
" Wootton, Meteor, Bridesmaid	4.00@ 6.00
" Beauty	10 00@35.00
" Mixed	3.00
" Jacqs	12.50
" Hybrids	15.00@35.00
Carnations, long	.75@ 1.00
" fancy	1.50@ 2.00
Valley, Romans, narcissus	2.00@ 3.00
Tulips, Daffodils	3.00@ 4.00
Dutch hyacinths	5.00@ 8 00
Violets	.50@ 1.00
Callas, Harrisii	4.00@ 6.00
Mignonette	1.50@ 2 50
Smilax	8.00@15.00
Asparagus	50.00
Orchids	15.00@50.00

CINCINNATI, Mar. 3.

Roses, Beauty	10.00@35 00
" Mermet, Bride	4.00@ 6 00
" Testout	8.00
" Perle	3.00@ 4 00
Carnations	1.00@ 3.00
Tulips	3.00@ 4.00
Narcissus	3.00
Daffodils	2.00@ 3.00
Valley	3 00
Romans	2 00
Violets	.75@ 1.00
Callas, Harrisii	8.00
Pansies	.75@ 1.00
Smilax	10.00@15.00
Adiantum	1.00

ST. LOUIS, Mar. 3.

Roses, Perles, Niphetos, Wootton	3 00@ 4.00
" Bride, Mermet, Bridesmaid, Meteors	4.00@ 6.00
" Watteville, Hoste, Cusin	3.00@ 5.00
" La France, Albany	3.00@ 4.00
" Beauty	5 00@35.00
Carnations, long	1.00@ 2.00
" fancy	1.50@ 2.50
" short	1.00
Valley	3 00@ 4.00
Romans, Narcissus	2.00@ 3.00
Tulips	2.00@ 3.00
Daffodils	1.00@ 4.00
Violets	.25@ 1.50
Harrisii, Callas	3.00@ 8.00
Mignonette	1.50@ 2.00
Smilax	15.00
Adiantum	1.25
Galax leaves	2.00

BUFFALO, Mar. 3.

Roses, Beauties	10.00@18.00
" Mermet, Bride, Bridesmaid	5.00@ 7.00
" Meteor	5.00@10.00
" Gontier, Perle, Niphetos, Hoste	4.00@ 6.00
" Cusin, Watteville	5.00
Carnations, long	1.50@ 2.00
" Daybreak	@ 2.00
" short	.75
Valley	3.00@ 4 00
Violets	1.00@ 1.25
Mignonette	1.00
Pansies	1.00

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers
OUR SPECIALTIES:
AMERICAN BEAUTIES, METEORS. BRIDESMAIDS.

CUT FLOWERS.
ROSES, standard varieties and novelties.
Carnations, all the new sorts in finest quality.
VIOLETS, MIGNONETTE AND VALLEY.
FIRST QUALITY STOCK. WHOLESALE ONLY.
THOS. YOUNG, JR.,
20 WEST 24TH ST., NEW YORK.

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WHOLESALE
FLORIST,
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Roses Shipped to all points. Price list on application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, at Toronto, Ont.

Philadelphia Notes.

TO THE AMERICAN FLORIST:—The enclosed ad. is good enough to insert in your comic column. The *single seed for a dollar* and the whole cargo will especially impress those who are in the trade in a small way:

A GREAT SEED SACRIFICE.

A $10,000 Loss turned to Your Gain.

CHOICEST FLOWER SEEDS come from France and Germany; some rare varieties often bringing *a dollar for a single seed.* A large importing house had an immense shipment of the finest grown seeds ever brought to America, and in unloading at the pier an awful accident occurred Now, as each kind must be put up in small, separate papers, this would have been a complete loss, but, hearing of it, and knowing its value, we bought the *whole cargo* of exquisite flowering seeds, getting in the whole assortment some of the highest cost kinds ever grown. We have thoroughly mixed them, all kinds, and put them up in elegant packets, containing over 200 varieties, to give away as premiums to ———. All you have to do is to sow them in a box, and when they get large enough to transplant you can set them out, and have a most elegant flower garden.

SPECIAL. *Having found a box of* Latest-Craze-in-Chrysanthemum *seed in the lot all safe, we are going to enclose one package of this popular seed also.*

OUR OFFER *is this: To everyone sending us 12 cents for a three months' subscription to ——— we will send perfectly free postpaid these packets of seeds and our* elegant book or manual, *as a guide to the culture of all flowers and plants Its many pages are loaded down with practical hints and helps to everybody, on all sorts of plant life, and describes how to arrange fancy window and garden decoration. We give all of these free if only 12 cents is sent to pay postage and expenses. 6 subscriptions and 6 lots for 60 cents. Address,*

———, *Seed Dept.*, ———, *Maine.*

You kindly ask me for some seed notes, but I regret to say that it is difficult to obtain anything authentic from that source. Up to date the reports are as follows, which is I think a very accurate statement:

For many seedsmen the month of January was the best for years. In some instances the amount of trade was 25% in excess of any previous year. During February, however, trade fell off so rapidly that now, March 1, most of the seed houses are way behind, notwithstanding the fact that one firm especially has done $10,000 to $15,000 more advertising than usual. The falling off has occurred principally in plants and also in flower seeds. From the great number of inquiries, however, it is hoped that business will improve early in March and in April. So far the plantsmen have suffered terribly. It is reported that one of the prominent firms, if not the most prominent one, is not doing one-third the business expected, notwithstanding an enormous outlay in catalogues and advertising. Those who have done the least advertising are coming out best, as big advs. in $3 and $4 per line papers are not pulling at all. It has always seemed to the writer that the seedsmen were dividing a large share of their profits among the high priced magazines. To anyone who takes the trouble to compute the cost of advs. in some of these it seems impossible that the amounts spent in a single issue by some seedsmen will ever come back to them. One shrewd seedsman stated the other day that a $900 adv. returned him just $200, and he is a good advertiser too. I think that some folks will come to the conclusion that full page advs. do not pay. After repeated conversations with several prominent men in the trade we have found that the horticultural magazines pay them best. This is noticeably the case with small dealers.

A. BLANC.

MR. J. A. FRASER, formerly with Currie Bros., Milwaukee, Wis., is now traveling for H. G. Faust & Co., Phila., Pa.

IT IS BELIEVED that more than fifty tons of sweet peas, covering over five hundred acres of ground, will be produced in California this season.

THE Western Seed & Irrigation Co., at Waterloo, Neb., are out with a seed growing circular to the wholesale trade. F. W. Barteldes is president and treasurer, Frank T. Emerson, secretary and general manager.

MARCH 22 we shall issue our annual special spring number. No increase in adv. rates. Send copy early for your spring announcement.

Summer Delivery
(JULY AND AUGUST.)

PALM SEEDS (from California and Australia).

TREE FERN STEMS.

FREESIAS. We will have a million of FREESIAS running from 7-16 to ¾ of an inch.

CALLAS. Dry roots in all sizes.

LIL. LONGIFLORUM.

CALIFORNIA SMALL BULBS.

Bradiæas, Calochortus, Fritillarias.

Advance Price List ready. Send for it. We want your orders now. Address

H. H. BERGER & CO.,
SAN FRANCISCO, CAL.

GEO. W. WEST,
GROWER AND EXPORTER OF
BERMUDA BULBS,

Lilium Harrisii,	Lilium Longiflorum,
Freesia Refr. Alba,	Calla Lily,
Amaryllis Johnsonii,	French Cannas, best vars.
Amaryllis Regina,	White Rom. Hyacinths

CYCAS PALM LEAVES
A Specialty.

SHELLY BAY, - - BERMUDA.

Z. De Forest Ely & Co.
WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN
FLORISTS' SUPPLIES.
1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.



TRY DREER'S
GARDEN SEEDS,
Plants, Bulbs & Requisites.
They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

SEEDS!
PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

FIFTY THOUSAND
PEARL TUBEROSES
F. O. B. NEW YORK.
We offer selected bulbs of above, from four to six inches in circumference, for present shipment, at $9.00 per 1000. Orders accepted subject to being unsold.

SWEET PEAS, California grown.
We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.
(SHERWOOD HALL NURSERY CO.)
427-9 Sansome St., *San Francisco, Cal.*

Hulsebosch Brothers,
OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LILIUM SPECIOSUM ALBUM .	$ 6.00	
" " ROSEUM .	5.00	
" " RUBRUM .	5.00	
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors.	4.00	35.00
CONVALARIA MAJALIS, German pips.	1.00	8.00
TUBEROSES, Pearl and Tall. Al (big) bulbs.	.90	7.50
LOW BUDDED ROSES, in sorts, Dutch Stock.	9.00	
English Stock.	11.00	

All other plants or shrubs can be ordered for March, '94 delivery.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.

. . DUTCH BULBS . .
PETER VAN VELSEN & SONS,
Houtvaart-Overveen near Haarlem, Holland.
Growers of Hyacinths, Tulips, Crocus, Narcissus, etc. Catalogue free on application. Special prices given for large quantities.
Established 1834.

GLADIOLUS BULBS
Seedlings of 1892, from choicest named varieties, Lemoine's and Gandavensis, 1 to 1½-inch, warranted to bloom this season, $9.00 per 1000.
Named vars. and Seedlings mixed, 1½ to 2½-in. $10.00 per 1000. At least one-third of the above are whites and light. No cheap Brenchleyensis and common reds.
WM. FERGUSON, Groveland, Mass.



New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from $1 order).

A. BLANC,
Engraver for Florists,
PHILADELPHIA, PA.

BULBS
Send List of What You Need.
WE CAN
SAVE YOU
MONEY.
TRADE MARK
A. BLANC & CO., Philadelphia, Pa.

CARNATIONS

Rooted Cuttings of the following varieties now ready. Entirely free from rust. I have never had rust on the place.

	Per 100
PORTIA	$1 00
LIZZIE McGOWAN	1 00
PURITAN	1 25
NELLIE LEWIS	1 50
FRED. DORNER	1 50
GRACE WILDER	1 00
AURORA	1 50

100,000 Rooted Cuttings Carnations ready. If wanted by mail, add 10c. per 100 for postage.

COLEUS.

A large stock of strong rooted cuttings ready. Price 50 cts. per 100; many nice varieties. Golden Bedder if ordered alone 65 cts. per 100. If Coleus are wanted by mail, add 10c. per 100 for postage. 50,000 ready.

ALTERNANTHERA Aurea nana, 50 cts. per 100.
" P. Major, 50 cts. per 100.

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

New, Rare and Beautiful Plants.

A large collection of choice Hothouse and Greenhouse Plants, carefully grown, at low rates.

RARE AND BEAUTIFUL EVERGREENS, ORNAMENTAL TREES, SHRUBS, &c.

ORCHIDS.—A very extensive stock; East Indian, Northern, Central and South American, etc.

PÆONIES.—A collection of the finest in cultivation.

Hardy Perennials, Phloxes, Japanese Iris, Roses, Clematis, etc. New and Standard Fruits, etc.

☞Catalogues on application.

JOHN SAUL, Washington, D. C.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**

1708 N. Halsted St., CHICAGO.

200,000 Pansies.

The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown, and are fine and stocky. Finest mixed, by Express, $5.00 per 1000; 5000 $20.00; 10,000 $35 00. Small plants by mail, 60c. per 100.

Seed, pure white, yellow or mixed, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.

ADDRESS **E. B. JENNINGS,**

WHOLESALE PANSY GROWER,

Lock Box 254. SOUTHPORT, CONN.

Fancy Caladiums Very Cheap.

Bulbs from 2½-inch pots, for mailing, $4 00 per 100; $35.00 per 1000. The same named, $8.00 per 100; $42 50 per 1000.

Cape Jessamine, from 4-inch pots, nice, $9.00 per 100.

Large Phrynlums, very cheap 6, 8, 10 inches.

Cyperus, from 4-in. pots, 6c Cureulgo, 4-in. pots, 10c.

Anthericum vittatum var. 4-inch pots, 8c.

Vinca var. 2½-inch pots, $2.00 per 100.

Also one 8-horse power steam boiler, nearly new, very cheap. Same is well kept. Address

F. J. ULBRICHT, florist, P. O. box 655, Anniston, Ala.

HERRMANN'S SEED STORE

413 East 34th Street,

Near Long Island Ferry, NEW YORK.

MIGNON ASTER.

The Best for Cut Flowers.

PINK WHITE. PER OZ. $1.50.

PRICE LIST FREE ON APPLICATION.

RED SPIDER.

I used to be afraid of Red Spider, but am not now. Have not seen any in my buildings this winter. A sure and cheap remedy sent on receipt of ONE DOLLAR.

A. B. CAMPBELL, florist, Cochranville, Chester Co., Pa.

IN THE FRONT RANK!

NEW WHITE CHRYSANTHEMUM

"MUTUAL FRIEND"

It is sure to be a prize winner and a leading variety for '94.

FIRST PRIZE and CERTIFICATE of MERIT MASS. HORT. SOCIETY, '93.

Orders booked now for March delivery, 50c. each; $4.00 per dozen. At these prices all should try it. We know it will please. Send for descriptive circular.

MANN BROS., Randolph, Mass.

New Chrysanthemum, MRS. J. GEO. ILS,

A CALIFORNIA SEEDLING.

Flowers sent from San Francisco to the Chicago Show awarded a MEDAL.

A grand white, of remarkable substance, size and depth of flower. See Illustration in AMERICAN FLORIST of November 16th. The very vigorous habit, and our large stock of this novelty, enables us to assure the trade of good plants, and to guarantee safe arrival. To be sent out the 1st of March, 1894, at the following prices to the trade:

75 cents each; $7.50 per 12 plants; $14 per 25 plants; $25 per 50 plants; $40 per 100.

ORDERS BOOKED NOW BY

JOHN H. SIEVERS, 25 Post St., SAN FRANCISCO, CAL.

CARNATIONS.

	Per 100	Per 1000
Rooted Cuttings, standard vars.	$1.00	$9.00
Newer kinds and novelties	$3.00 to $12.00	

CHRYSANTHS.

Standard varieties	$1.00
Newer kinds and novelties, $2.00 to $5.00	
AGERATUM and ALTERNANTHERA	60c. $4.00
COLEUS and VERBENAS	75c. $6.00

For other stock see list.

JOHN J. CONNELLY,

BRYN MAWR, PA.

CARNATIONS.

ROOTED CUTTING.

DAYBREAK, $2.50 per 100; $20.00 per 1,000.
SILVER SPRAY, McGowan.
GARFIELD, $1.50 per 100; $9.00 per 1,000.
TIDAL WAVE, $1.75 per 100; $12.00 per 1,000.
PORTIA, HECTOR.
LADY EMMA, $1.25 per 100; $8.00 per 1,000.

LAKE GENEVA FLORAL CO., Lake Geneva, Wis.

HEADQUARTERS

FOR

Bread and Butter Carnation Cuttings

	Per 100	Per 1000
PURITAN, LIZZIE McGOWAN, PORTIA, GRACE WILDER.	$1.00	$9.00

All other Good Kinds. Write for Prices.

S. J. REUTER, WESTERLY, R. I.

ROOTED CUTTINGS.

Chrysanthemums AND Carnations.

Write for list and prices. Prices to suit the times.

Address **J. G. BURROW, Fishkill, N. Y.**

READY FOR BUSINESS

Make known your wants and we will be pleased to quote prices.

CATALOGUES NOW READY. . .

W. A. MANDA,

The Universal Horticultural Establishment,

SOUTH ORANGE, N. J.

SPLENDID STOCK IN POTS

Alternanthera paronychioides, aurea nana, rosea nana, versicolor, $2 per 100. Coleus, assorted, 12 varieties, $2 per 100. Begonia, assorted, $4 per 100. Heliotrope, 3 varieties, $2 per 100. Geranium, 20 best bedders, $3 per 100. Ivy Geranium, 4 varieties, including Crozy, $4 per 100. Primula, 3½-inch pots, in bloom or bud, $7 per 100. Salvia, best dwarf red, $3 per 100. Carnation, rooted cuttings, $1 per 100—Portia, Lizzie McGowan, Puritan, Fred. Dorner, Grace Wilder, Aurora.

A. BARBE, Kansas City, Mo.

CHRYSANTHEMUMS.

A FINE STOCK OF

QUEEN

AND

NIVEUS,

$10.00 PER 100.

J. A. PETERSON,

41 West 4th Street, CINCINNATI, O.

CHRYSANTHEMUMS

—AND—

CARNATIONS.

Send for trade list.

NATHAN SMITH & SON,

167 W. Maumee St., ADRIAN, MICH.

ONE HUNDRED AND ONE FINE CHRYSANTHEMUMS

FOR $3.00.

All fine commercial varieties including one of the new early pink Mrs. E. G. Hill. Other stock in proportion. Write for what you want.

W. C. COOK & CO.,

70th St. & Madison Ave., CHICAGO.

NEW CHRYSANTHEMUMS.

SPECIALTIES: Including The Queen, Niveus, Mrs. F. L. Ames, Golden Wedding, Judge Holtt, and Good Gracions. Twelve plants for $1.00.

NOVELTIES: Including The World, White Eagle, Monarch of Ostrich Plumes, Silver Waves, and Pascha. Fourteen plants for $1 00.

GENERAL LIST: Including many new varieties. Sixteen plants for $1.00.

Now ready for delivery. Send for catalogue.

M. B. LITTLE, GLENS FALLS, N. Y.

Hard Time Prices.

STOCK PLANTS.

GEO. W. CHILDS, WABAN, MRS. L. C. MADEIRA, VIVIAND-MOREL, V. H. HALLOCK, JESSICA, J. C. VAUGHAN, AMI HOSTE, DIANA, at $1.00 per dozen.

Cash with Order.

SOUTH SIDE FLORAL CO., Springfield, Ill.

Mention the American Florist when writing to advertisers on this page.

Odontoglossum Krameri Albidum.

A very charming form of Odontoglossum Krameri, with pure white sepals and petals, having the base of the labellum of a bright yellow, and the blade of the lip of a delicate pink, is now in flower with Walter Cobb, Esq., Dulcote, Tunbridge Wells; its beautiful flowers last a long time. But few plants of this white form are known. There is one in the Tring Park collection and Sir Trevor Lawrence has another and that probably enumerates the number in cultivation. "*Viator*" *in Gardeners' Chronicle.*

[Odontoglossum Krameri alba is known in this country and is to be found in certain of our large collections. It is white with yellow crest but the pink lip above mentioned is absent. After all, the white form is hardly equal to the type in beauty, and compared with Alexandræ and Pescatorei, Krameri, Oerstedii and the like must take a back seat. But Krameri and its varieties are liable to be always scarce owing to the great difficulty in handling them.]

Our annual spring number, to be issued March 22, will be beautifully illustrated and will be equal to those of the past. Advertisers know what this means. No increase in rates. Send copy for your adv. early so we may have time to get it up in our best style.

COLEUS.

Our stock is large and handsome, consisting of 70 to 75 varieties, including the very newest kinds.

ROOTED CUTTINGS, in 30 to 40 varieties, (our selection), at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.

NEW KINDS, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.

Golden Verschaffeltii and Mrs. I. O. Haight (yellow), at $8.00 a 1000. *We will include* at least 50 cuttings of the *new kinds* in every 1000 purchased.

CARNATIONS.

A large stock of **BUTTERCUP** in prime condition.
Rooted Cuttings, $5.00 per 100; $10.00 per 1000.
Prices of other kinds on application.

Send for circular. Safe delivery guaranteed in all cases.

W. R. Shelmire,
. . . **AVONDALE, PA.**

The Best Carnation in the Market.

THE ADELAIDE KRESKEN

Which was originated in 1891, and flowered in the same year, is conceded by all to be the prettiest Carnation ever grown. Strong grower, free from rust, is 2 ft. high, stiff stem, good calyx, and the flower (of a beautiful rosy pink color) averaging three inches and over.

A VERY FREE BLOOMER. In addition to receiving the **Best Seedling Prizes** at Cincinnati, O., Club Certificate at Springfield, Mass., and Milwaukee, Wis., Hunt Prize, Indianapolis, Ind., it has received Certificates of Merit at the American Florists' Society St. Louis, Mo.; also the best vase of pinks at St. Louis, Mo., and Certificate of Merit at Toronto. The undersigned begs leave to submit the following exceedingly low prices for **Rooted Cuttings**, which will be ready March 1st 1894: **$2.00 per doz.; $10 per 100; $45 per 500; $80 per 1000.**

Cash must accompany all orders. Address all communications to

PETER HERB, Mt. Healthy, Hamilton Co., O.

AMERICAN CARNATION SOCIETY.

Orders solicited for advertising space in the Report of the Indianapolis meeting.

C. J. PENNOCK, Secretary,
KENNETT SQUARE, PA.

Higher
prices have been paid this season in Boston for
Ada Byron and Nicholson
than for any other Carnations because they are the
Purchasing Public's Ideals.
Ada Byron is the deepest yet brightest pink imaginable,
Nicholson is just the color of a Mad. G. Luizet Rose.
Language cannot describe the sweet clove-fragrance they possess.
They are superior in vigor, size, color, fragrance,
Keeping and selling qualities to any yet produced.
First Prizes and Certificates
at New York, Boston and Springfield.
Send for priced descriptive circular to the Originators
Sole Agents.— Joseph Breck & Sons (Corporation)
47 to 54 North Market St. Boston. Mass.

Carnations==Panic Bargains

	Per 1000		Per 1000
Lady Emma or Portia	$ 10.00	Puritan	$ 15.00
White Dove	10.00	Pearl	20.00
Lizzie McGowan	10.00	Edna Craig	20.00
Schaffer	10.00	Daybreak	20.00
Grace Wilder	10.00	Thos. Cartledge	20.00
Mrs. Robt. Hill	10.00	Mayflower	20.00
Grace Darling	10.00	Hector	20.00
White Wings	10.00	Amy Phipps	25.00
Crimson Coronet	10.00	Blanche	25.00
Golden Gate	10.00	Mrs. E. Reynolds	25.00
American Flag	10.00	Richmond	25.00
Attraction	15.00	Wabash	25.00
J. J. Harrison	15.00	Western Pride	25.00
Aurora	15.00	Dr. Smart	25.00
Louise Porsch	15.00	Purdue	25.00
Nellie Lewis	15.00	Florence Van Reyper	25.00
Orange Blossom	15.00	Buttercup	35.00
Tidal Wave	15.00	New Jersey	25.00

ROOTED CUTTINGS OF VERBENAS, $7.00 per 1000.

Strictly Cash with order. Orders filled in rotation.

ESSEX HEIGHTS FLORAL CO., BELLEVILLE, N. J.

The Jacqueminot Carnation . .

IS A PERFECT SUBSTITUTE FOR THE JACQUEMINOT ROSE.

Many buy it in preference because of its lasting qualities, and you can have it in bloom when the rose is out of season. Send for descriptive circular, enclose 10c. and we will mail you long stem sample blooms. The color is a bright crimson (no black in it). If the blooms look dull on arrival, they have been chilled or frozen. Notify us, we will ship again.

Rooted Cutting ready now:
PER DOZEN, $2; PER 100, $10; PER 1000, $80. 250 AT 1000 RATE.

PETER FISHER & CO., ELLIS, NORFOLK CO., MASS.

Rooted Cuttings. CARNATIONS. Rooted Cuttings.

ALL THE BEST VARIETIES IN CULTIVATION.
FINE STOCKS OF DAYBREAK, EDNA CRAIG AND CARTLEDGE.
NO DISEASE! NO RUST!
Catalogues ready January 1st, '94. Correspondence solicited.
Address **H. E. CHITTY, Paterson, N. J.**

ROOTED CUTTINGS OF
CARNATIONS
For Immediate Delivery.
Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.
JOS. RENARD, UNIONVILLE, Chester Co., PA.

CARNATIONS.
Strong, healthy, well rooted cuttings now ready.
SAMUEL J. BUNTING,
Elmwood Ave. and 58th St., PHILADELPHIA, PA.

Always mention the American Florist when writing to advertisers.

Mention the American Florist when writing to advertisers on this page.

CARNATIONS

Rooted Cuttings Ready Now.

Silver Spray	Wm. Scott	E. Pierson
Lizzie McGowan	Daybreak	Portia
Blanche	Edna Craig	Wabash
Golden Gate	Annie Pixley	F. Mangold
J. J. Harrison	M. Albertini	Tidal Wave
T. Cartledge	Nancy Hanks	Dr. Smart

These and other standard sorts $12 per 1000 and upwards

Varieties of 1894 Ready April 1st.

The Stuart (scarlet) was awarded the gold medal at Indianapolis. Uncle John (white) received certificate of merit at same place. Helen Keller, Goldfinch (yellow) and E. A. Wood.

SEND FOR COMPLETE PRICE LIST.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

4 NEW CARNATIONS
FOR 1894.

UNCLE JOHN, white; **THE STUART**, scarlet;
E. A. WOOD, pink variegated;
GOLDFINCH, yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from **Headquarters.** We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Ellz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.
Send for price list.

F. DORNER & SON, La Fayette, Ind.

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Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE.

"Sweetbrier is all that can be desired."
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Rooted cuttings, $16.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS. $3.00 per 100; $25.00 per 1000.
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MONEY-GETTERS ALL!

THESE NINE **CARNATIONS** FROM SOIL.
Free from Disease and First-Class in every way.

- Uncle John
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- Edna Craig
- Albertini
- Daybreak
- Cartledge
- McGowan
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Note, before you order elsewhere, that we offer the above and twenty other good varieties of Carnations, well established in soil, ready for planting out or potting up—delivery in April—at the price of cuttings from sand, and guarantee satisfaction. Send for list.

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50,000 Carnations.

ROOTED CUTTINGS READY.
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50,000
Rooted Cuttings Carnations,

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Send list of your wants.

Address **BENJ. CONNELL,**
Carnation Grower, WEST GROVE, PA.
Also a nice lot of small Ampelopsis Veitchii for potting up, at $20.00 per 1000.

CARNATIONS.

Varieties good. Cuttings good. Lizzie McGowan, Silver Spray, Aurora, Grace Darling, Portia and J. R. Freeman, at $1.25 per 100; $10 per 1000. Fred Dorner, $2.00 per 100; $12.50 per 1000. Daybreak, at $2.50 per 100; $20.00 per 1000. Edna Craig, $3.00 per 100; $25.00 per 1000.

Annie Pixley and Helen Keller.

PIXLEY is one of those beautiful light pinks, with a fair sized flower and good, strong calyx. With ordinary culture stems can be cut twenty inches long. The flower is a model in form, and the growth is strong and healthy.

KELLER you know all about, they are both sure to make good paying varieties for cut flowers.

Pixley per 100, $12.00; per 1000, $100.00.
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Verbena Lancaster Beauty.

Decidedly the prettiest Verbena that grows, novel as well as beautiful and sells at sight.

Price, per 100, $2.00.

PANSIES.—I can still supply a few of those seedling plants at $5.00 per 1000, or 75 cts. per 100. The same good strain I always have.

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Coleus at $7 per 1000. Alternanthera, transplanted, Red, Yellow, Pink, $1.25 per 100; rooted cutting, $6 00 per 1000.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

"HELEN KELLER Is the Finest Variegated Carnation now on the Market."

So declared **THE JUDGES** at the meeting and exhibition of the
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And so say all who have seen it **Growing** and **Blooming.**

The delicate tracing of scarlet on its pure white petals renders it very showy; yet does not mar its effectiveness when used on all joyous occasions.

A CERTIFICATE OF MERIT was awarded by the A. C. S. at **Indianapolis**, and
A CERTIFICATE OF MERIT was awarded at **Washington, D. C.** last November.

It is a free and continuous bloomer; in addition to the large size of the flower and its perfect form. **Price for Strong Well Rooted Cuttings, $3.00 per Dozen; $12.00 per 100; 250 for $25.00; $90.00 per 1000.** 500 at 1,000 rate. *Orders may be sent either to*

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After growing this variety for the past three winters we are convinced that it is the best Yellow Carnation ever introduced.

WHAT WE CLAIM:—That it is decidedly a good, strong grower and free bloomer; color a beautiful yellow penciled with dark carmine. That it is of the best form and fully as large as Buttercup. That the calyx is perfect, the stem long and stiff, and the foliage possibly better than that of any other carnation.

PRICE, $2 per doz.; $10 per 100; $75 per 1000. ROOTED CUTTINGS READY MARCH 1, 1894.

Orders filled in strict rotation. Come and see it grow and be convinced. Only one hour from New York City.

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NO DISEASE MEANS LARGE CROPS AND GOOD PRICES.

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P. S.—Send for new 28 page Illustrated Catalogue just out.

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Rooted Cuttings, Now Ready.

	Per 100	Per 1000
DAYBREAK	$2 50	$20 00
BUTTERCUP	4 00	35 00
PURITAN	2 00	15 00
SILVER SPRAY	1 50	10 00
LIZZIE McGOWAN	1 50	10 00
GRACE WILDER	1 50	10 00
PORTIA	1 50	12 00

Cash with order. 10c. per 100 extra when ordered shipped by mail.

Send for wholesale price list of Rooted Cuttings and Plants.

JAMES HORAN, Florist, **Bridgeport, Conn.**

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Wm. Scott, Edna Craig, Daybreak, Thos. Cartledge, Buttercup, McGowan, and many of the standard kinds. Orders filled for the New varieties,
Stuart, Uncle John, Helen Keller, Sweetbrier, Annie Pixley, Bonton d'Or.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

DAYBREAK, NANCY HANKS And CARTLEDGE.

NOW READY.

FINE, CLEAN, HEALTHY STOCK. SPECIAL PRICES to large buyers of these splendid Carnations.

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ED. AM. FLORIST: What is the reason that some of my Harrisii lilies split? I have a very fine looking lot of plants but now they are beginning to bloom a good many of the buds are coming crippled and split when opening. They are in 5-inch pots. The bulbs were 7 to 9 inch and apparently in good condition when potted. Has greenfly anything to do with the trouble? BEGINNER.

The splitting of lilies is not influenced by whether the bulbs are good or bad. If the bulbs were inferior they would show it in the growth. Splitting is occasioned by injury from greenfly when the buds are small, and the injury is usually done before the buds show above the foliage. At that time the buds are very succulent and soft and punctures made by green fly prevent proper development of the flower and cause it to open unequally which occasions the splitting. The flowers of plants kept perfectly free from green fly never split, and they never split from any other cause. No crop is so easily injured, at least none shows the damage so much, as Easter lilies when allowed to become infested with green fly, and they should be looked after very carefully all during growth on this account.

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CLEMATIS.

ROOTED CUTTINGS.

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Lilacina, purple	$3.50	$30.00
Jackmanni, purple	4.00	35.00
Velutina purpurea, purple	3 50	30.00
Cipsy Queen, blue	3.50	30.00
Viticella venosa, blue	3.50	30.00
Viticella rubra Kermesina, red.	3.50	
Lawsoniana, lavender	3.50	30.00
Ramona, lavender	3.50	30.00
Albert Victor, pink	3.50	
Henryi, white	3.50	30.00
Miss Bateman, white, fragrant.	3.50	30.00
Mrs. Howard Wyse, white	3.50	30.00
Mrs. Baker, white	3.50	30.00
Duchess of Edinburg, dbl. white	4.00	
Paniculata, white, small flowers	3.50	30.00

1000 Rooted Cuttings, our selection, (15 per cent. Jackmanni) $25.00.

N. B.—Orders can not be filled for these cuttings after March 20th.

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Gloxinia, Bulb Begonias, extra varieties.

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Conover's Colossal, One and Two Years Old.

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SMILAX SEED—A few ounces left; crop of 1893, at 50c. per ounce.

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ALTERNANTHERA P. Major and Aurea Nana, by mail	50c per 100
CUPHEA (cigar plant), by mail	50c per 100
PILEA (artillery plant), by mail	50c per 100
FUCHSIA, mixed	$1.00 per 100

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Stock is the very best, and prices very low. If you want any rooted cuttings it will pay you to correspond with us. Send for price list.

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Some of the few really good things that are introduced for the first time this month.

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BOUTON D'OR,
UNCLE JOHN,
} Carnations.

100 of these for $10. Lowest price by the 1000.

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MRS. E. G. HILL. $25.00 per 100
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We will send 12 Novelties, the cream, in Chrysanthemums—one of each—

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Our WINNING 48 at Chicago, one of each, all named, for $6.00.

12 of the finest Single, Double and Bruant GERANIUM NOVELTIES of the year, from the best growers in France, Germany, England and the United States, for $3.00,

50 Plants finest GERANIUMS introduced in 1893, for $4.00. You ought to have these to keep up with the times.

9 CANNAS, from Crozy and other French raisers, the cream of the year's introductions, one of each for $6.00.

Florence Vaughan, strong, from pots, $25 per 100.
Pandanus Veitchii, 6-inch, fine, $12 per dozen.
Ficus elastica, 1 ft. high, Belgian var. $3 per doz.
A magnificent collection of Double Petunias, at $4.00 per 100—figured in the FLORIST last year.
Grand Variegated Abutilon, Souv. de Bonne, $4.00 per dozen.

Send for our Wholesale List.

E. G. HILL & CO.

Richmond, Indiana.

ROOTED CUTTINGS. Per 100

Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Coleus of sorts, mixed	.50
" best new and old, named	1.00
Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted, Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't.	$3.00 and 4.00
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Echeveria glauca	$2.00 and 3.00
Extensa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted	$2.00 and 3.00
Hibiscus, assorted	4.00
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Antherieum picturatum, per dozen, 75c.	
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00
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All the leading varieties for cultivation under glass, in following sizes: 1 year, 2 years, and extra strong. Also Peaches and Nectarines specially prepared for forcing in pots and tubs. Orders booked for specially prepared fruiting plants of Vines, Nectarines, Peaches, Strawberries, Fall of '94 delivery.

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AZALEAS FOR EASTER.



WE HAVE HOUSES FULL, AS WILL BE SEEN BY THE ABOVE ILLUSTRATION, OF AZALEAS FOR EASTER FORCING.

The plants are in the best possible condition, finely set with buds, not too far advanced to ship safely at this time, which will insure a supply for Easter. We can make selections of plants taken from different temperatures to give a succession of bloom. We offer plants

9 to 10	inches in diameter at	$ 4.50	per dozen;	$35.00	per 100.
10 to 12	" "	6.00	"	45.00	"
12 to 15	" "	9.00	"	70.00	"
18 to 22	" "	30.00	"		

The varieties we handle are the best market kinds. The 12 to 15 inch size are of exceptional value. Send for copy of **Dreer's Wholesale Price List** for 1894, mailed free to Florists, Market Gardeners and Nurserymen who enclose business cards.

HENRY A. DREER, PHILADELPHIA.
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Your Easter Trade

will be conducted more smoothly, and run more profitably if aided by the use of a set of

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OF 20 GOOD VARIETIES.

No. 1 plants very low. 5,000 CONCORD, 2 years, at $10.00 per 1000. 5,000 No. 2 DOUBLE PEARL TUBEROSE, good flowering bulbs, at $3.00 per 1000; 2,000 for $5.00. With or without sets. Send for price list to

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Once transplanted. From seeds of best strains.

	Per 100	Per 1000
Finest mixed	$.60	$5.00
Snow Queen	.60	5.00
Pure Yellow	.60	5.00
Golden Gem	.60	5.00

Lord Beaconfield, Emperor William and others.

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Fine, Large, Healthy, Rooted ROSE Cuttings

Brides, Mermets, Gontiers, per 100, $1.10
Perle, La France " 1.60
CARNATIONS—Silver Spray, McGowan, Wilder, Portia, Am. Flag, Lamborn, $1.10 per 100.
Free by mail. Cash with order.

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20 CANE STAKES FOR 1 CENT

A foot in length by simply using a sharp saw on a bundle of our best.

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APPLE GERANIUMS

$5.00 PER 100.

Clematis Crispa, strong roots.....$5.00 per 100.

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Buffalo.

The past week has been bright spring weather here, warm sunny days and mild nights. When the thermometer stands at 62° in the shade on the 4th of March it is liable to upset your calculations for Easter crops.

There has been a great abundance of flowers for the past week or two and on Saturday some ruinous cuts in prices were made. Carnations, violets and daffodils suffered most. When daffodils and carnations are retailed for twenty-five cents per dozen, the grower, whoever he is, is not going to make money enough to take him to Atlantic City this summer.

Business has been fairly good the past week, plants selling well. I never remember so many good houses of violets in this locality as can be found this year.

The club held its monthly meeting last Tuesday, when nomination of officers were in order. They will be an entirely new set and may they put new life into the old organization is the prayer of all of us.

Buffalo florists were glad to be represented at Indianapolis, even if it was *only* by Mr. Long. He gave us a good talk on it. It must have been immensely enjoyable besides instructive.

We have among us the well known "Jim the penman" with his handsome and affable assistant Capt. Foy. They are victimizing a large number of our citizens, but the victims are all getting good value for their money. W. S.

OUR annual spring number, beautifully illustrated and full of valuable matter that will surely be preserved, will be issued March 22. Arrange now for an adv. in it. No increase in rates.

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Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

Metal Designs, the best winter cemetery decoration, in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.

Supplies of all Kinds, such as Immortelles, Cape Flowers, Wheat Sheaves, Flower Baskets, Pot Holders, Plant Stands, Fern Dishes, etc., etc.; all quoted in our beautifully and richly illustrated new Trade List mailed free. Address

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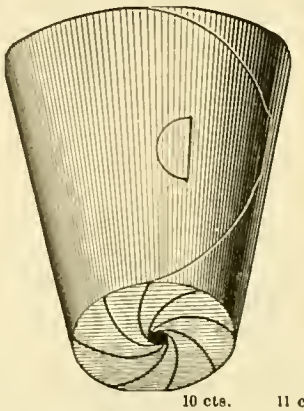
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SPIRÆA JAPONICA " 4.00
DIELYTRA SPECTABILIS..... " 4.00

Lilium speciosum, Peonias, Rhododendrons, Azaleas H. P. Roses. In best varieties, per 100 $9.00: Ariel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. C. Lutzel, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

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NEPONSET • FLOWER • POTS
of Waterproof Paper, light, durable, unbreakable and cheap.



Tomato Growers have used them with success and proved their appreciation by repeated orders.
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Market Growers of Verbenas, Alyssum, Coleus and other plants, which do not shun moisture, have used them extensively in repeated seasons.
Recommended for light and safe packing of tender and valuable plants, for the marketing of Ferns, Dutch Bulbs, Lily of the valley and the like.
Cost about 40 per cent less than earthen pots, and weight considerably lighter, thus saving in first cost and freight.

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For 1 dozen	2¼-in.	2⅝-in.	3-in.	3⅝-in.	4-in.	5-in.	6-inch pots.

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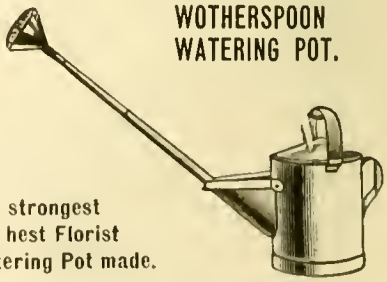
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THE BEST IS THE CHEAPEST.



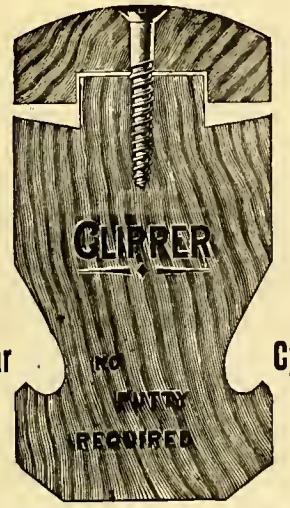
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The strongest and best Florist Watering Pot made.

Made of best iron and galvanized after being put together, every part riveted. For sale by leading seedsmen in the United States. Ask for the Wotherspoon Watering Pot and accept none that are represented as being just as good. If your seedsman does not keep them write direct for descriptive circular.

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Standard Flower Pots, Dried Grasses, Fancy Baskets Metal Designs. Trade Catalogue mailed free.

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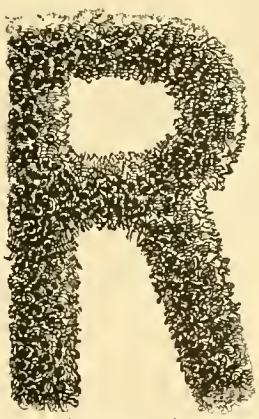
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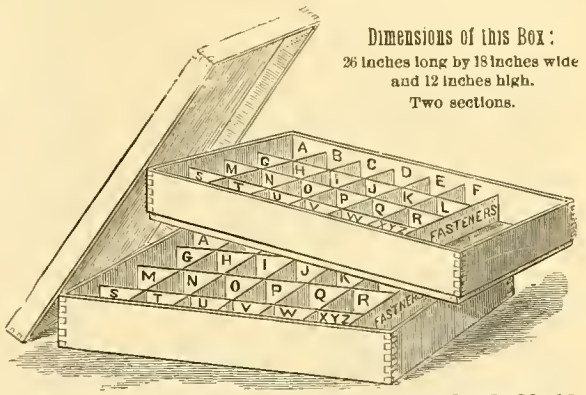
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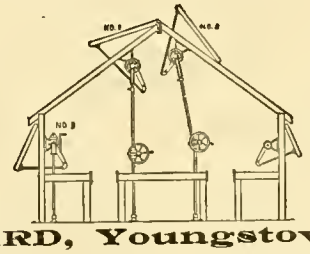
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There is no very heavy overstock of flowers in this market yet, and although the demand is very light, yet everything is fairly well cleaned up every day. The weather is getting so that the street fakir can expose flowers in the open air, and he is both numerous and industrious. He does his share towards keeping the stock well used up, and the growers would miss him sadly if he should go. The retailers, however, are not inclined favorably towards him, and the old fight to have him removed from this vicinity is showing signs of being renewed with fresh zeal.

There is a good supply of tulips, daffodils and other bulbous stock in pots, and palms, besides quantities of fine azaleas in bloom now in the market. The plant trade, however, is not as brisk as it should be. The supply trade has fallen off considerably during the past two months and is far behind that of last year.

Some of the florists report frankly an unsatisfactory season. Others with as much apparent sincerity claim to have done as well as in the past. Perhaps both are true, the difference resulting from local causes. There is no uncertain or varying testimony from the growers though, for it would be useless for them to claim that results during the past season have been equal to former seasons. Those who grow bulbous stock have suffered the most, for it has in many cases brought barely the original cost of the bulbs. There is a very general complaint regarding collections, which are unusually slow. A good season after Easter is hoped for, as such has been the rule in the past when this festival came early.

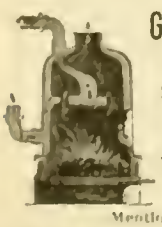


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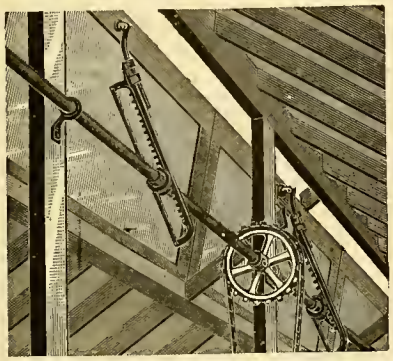
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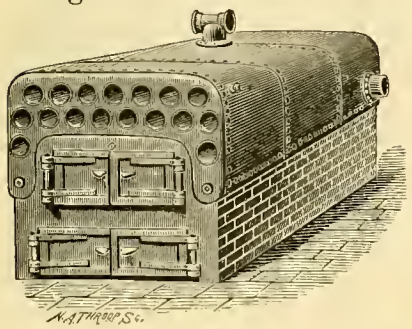
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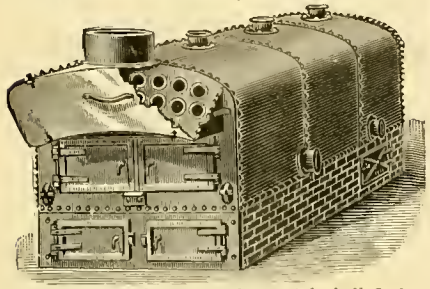
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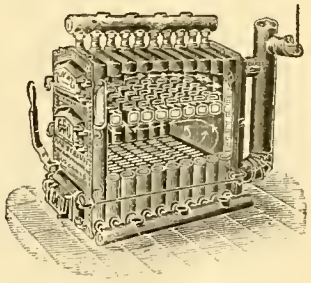


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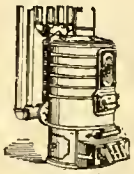
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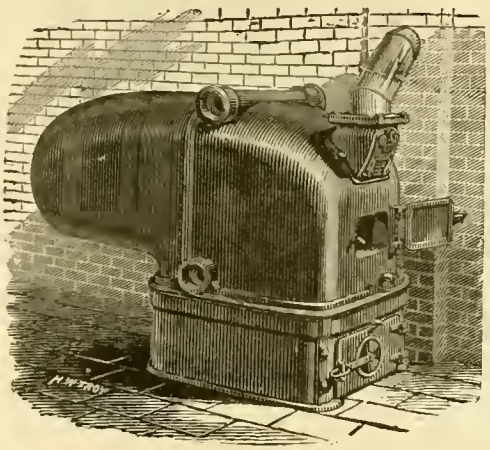
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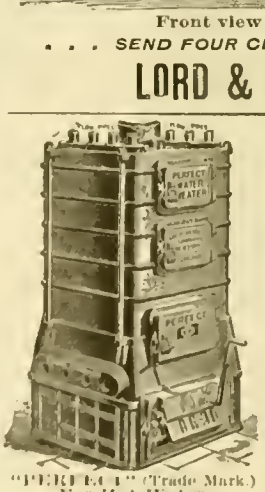
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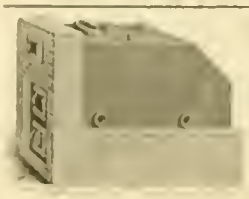
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Vol. IX. **CHICAGO AND NEW YORK, MARCH 15, 1894.** **No. 302**

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IN THE DEATH of Mr. R. J. Halliday, of Baltimore, the trade loses another of those leaders who were such a tower of strength in days gone by. We owe him much for his constant effort in combattiug the tendency to laxity in nomenclature, and the present S. A. F. committee on nomenclature was really the outcome of his early efforts to get the society to take a forcible stand in the matter. He was a member of the society of American Florists from its inception and always took an earnest interest in its work and welfare. A good and true man has gone to his reward.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

NEXT WEEK comes our spring number.



Progress in Orchid Culture.

[Paper read before the Gardeners' and Florists' Club of Boston by Wm. Robinson, gardener to Mrs. F. L. Ames, North Easton, Mass.]

Probably in no department of horticulture has such progress been made as in the culture of orchids. Twenty years ago these plants were cultivated only by the few, and their culture was so obscure that many valuable plants were lost through ignorance of the proper conditions indispensable to their culture, also through the absence of proper information from collectors as to the conditions and surroundings of these plants in their native habitats. Plants at that period were collected at all seasons. They did not regard whether the plant was dormand or in active growth. Their end and aim was to send home as many plants and in as small a compass as possible. Foliage and growth were thus sacrificed to space, and the stately lælias and cattleyas and other evergreen orchids would be sent home mutilated, and would often arrive exhausted and half dead, thus placing the gardeners and growers of that period at a disadvantage.

Everything is now changed. The advances made, not alone in the collecting and shipment of these plants and in the discovery of additional species and varieties, but also in the quantity and quality of the same is something marvellous. Old species which were supposed lost to cultivation have been re-introduced and the collecting of plants has been done with more care and intelligence. Plants now are collected after their growth is completed and matured, and they are now sent home invariably almost intact, with foliage nearly as perfect as when growing in their native element, thus retaining all their fresh vigor and presenting the appearance of established plants, some flowering almost immediately after their arrival.

Cattleya Trianæ was introduced in European gardens in 1860. It was only represented by a few plants, and not until ten or twelve years ago did they become known to the many, when fresh importations were sent to Europe by tens of thousands of plants, thus placing them within the reach in good condition of everyone who had a greenhouse. Many fine forms have appeared from time to time recently, including the saintly white form, C. Trianæ alba, the beautiful feather petalled Backhouseana and the immense Leeana, which is the largest form yet seen and commanded at auction sale about five hundred dollars per growth. I might mention the Dodsoni, which realized over one thousand dollars, and the fine formed Osmani, both of which are still rare, and many other forms, including Reine des Belges, Sanderæ and Amesiana, the latter a deep colored form named two years ago in honor of the late Mr. Ames.

Cattleya Mendelli is another orchid which was introduced to cultivation and was represented by one plant in 1870, but has these past few years been imported in large quantities. This brilliant cattleya resembles Trianæ and comes into flower immediately after that variety in the months of April, May and June, comprising many beautiful varieties, of which the white C. Mendelli Blunti is the most rare, and C. Mendelli Backhouseana is the richest colored form I have yet seen. This cattleya is of easy culture and yields to the same treatment as C. Trianæ, and can be confidently recommended to the consideration of florists. The great mistake many florists make is in going to auction sales and buying the refuse of many markets because they can be procured cheap.

Cattleya Warscewiczi is another cattleya which was only represented by one plant twenty years ago, but has since been introduced in such large quantities as to place it within the reach of all lovers of orchids. Out of all the immense importations which have appeared this seems to be the least variable of the labiata section, differing so slightly. Mr. Robinson here gave a list and interesting description of the more distinct forms of this species and then spoke of Cattleya Gaskelliana, which he said was introduced in 1883 and now is known in several very valuable forms, such as alba, Dellense and virginalis. Cattleya Bowringeana, he said, is another which has been received within the past eight years, and flowers during the months of October, November and December, throwing up large spikes of Skinnerii colored flowers, carrying from twelve to twenty-four flowers to a spike, lasting long in perfection. It is of easy culture and a grand acquisition as an ornamental plant and for florists' use.

The re-introduction of old C. labiata vera after more than half a century and when the locality where it was originally found was supposed to have been obliterated by volcanic disturbances, was an event of great importance to orchid lovers, as it placed within the reach of all this truly grand old species. Four years ago it was valued at three hundred dollars per lead, and today it can be purchased for as many cents. Mr. Linden introduced it as a new species under the name of Warocqueana, but the enthusiastic Sander had his collectors in the field, and it remained for him to announce to the orchid world that he had secured importations of the old original labiata. Everyone be-

ing anxious to procure it, it has been secured through many sources and now can be had for about one dollar. Many fine forms of this wonderful cattleya have appeared, including the white, which of course will remain expensive. It has proven of easy culture, and flowering in the months of October, November and December, makes it valuable and appeals to the florist.

Percivalliana is another recent introduction, distinct as well as beautiful, and in a horticultural sense a valuable addition, flowering in midwinter and almost simultaneous with the early Trianæs. It is variable in color, some forms being paler than others, while some are distinguished by a greater area of rich tawny yellow in the labellum.

Several other fine cattleyas have been introduced these past few years, which at present remain scarce, such as the beautiful white form Rex, the superb natural hybrid Hardyana and the equally brilliant Massiana. These are natural hybrids between C. Dowiana and C. Warscewiczi, and are among the richest colored forms.

The old Cattleya Mossiæ has been reintroduced in quantity and is represented by many fine colored types, but the whites are the most beautiful and have been more especially cultivated these past few years, including Mossiæ alba, Reineckiana, Arnoldiana and Wagneri, the latter snow white with lemon throat, the others white sepals and petals with delicately pencilled lips.

But with the hybrid forms which have been raised within the past twenty years the greatest success has been achieved. These have a special interest for the horticulturists of the present day on account of the difficulties hitherto experienced in raising them and which have now in a great measure been overcome, and the length of time which elapses before a seedling attains the flowering stage. Previous to 1872 Lælia exoniensis, Cattleya Dominiana and Cattleya Brabantiæ were the only hybrid cattleyas and lælias raised. Cattleya Fausta flowered in '72 and was Mr. Seden's first hybrid, which was subsequently followed by crispa and delicata, since which time many remarkable forms have appeared in quick succession, including many bigeneric forms which twenty years ago would not be dreamt of. Lælia caloglossa took nineteen years to arrive at the flowering stage; now six and seven years is about the limit.

After enumerating and describing a number of the most notable cattleya hybrids, Mr. Robinson then proceeded as follows: Lælias are another genus of stately growth and in close affinity to cattleya. Indeed the difference is principally botanical. This genus embraces many fine forms, but from a florist's standpoint the Mexican species are the most useful. Twenty years ago a plant was sent to Europe. It flowered and was a white form of lælia which was named Dawsoni and not one has been sent home since, and all plants of Dawsoni in cultivation are descended from this one plant. But a few years ago in an importation to Europe many valuable forms appeared, including Amesiana, rosy sepals and petals and splashed lip of darkest maroon, and Schroderæ, with deeper sepals and petals. Mr. Robinson here mentioned a number of the most notable of the finest recently introduced forms, including the various beautiful white varieties, and said that, whereas ten years ago we could not produce ten white flowers of anceps, as many as ten times that number are today produced on a single plant. These plants, he continued, are of easy culture in cool greenhouse well exposed to the light, with plenty of water during the growing season.

Dendrobiums are a genus which have increased in large proportions, not alone in the species, which are manifold, but in the quantity and quality of artificial hybrids which have been produced. D. Dominianum was the first artificial hybrid raised, and has been followed in rapid succession by dozens of beautiful forms and which are easily cultivated. The species which has made greatest strides during the past ten years is nobile, the forms appearing being legion, but the old nobile nobilius "true" stands today unequalled. The re-introduced beautiful species Dendrobium Phalænopsis after many years and when only a few plants were known fills a great space in the orchid world, flowering in November and December, when dendrobe flowers are the most scarce, and also in the spring. They will grow well, but must have plenty of light and heat, and the flower spikes will be produced in abundance from the summit of the bulbs, the spikes consisting of twenty or more large flowers of various colors charming in effect when used cut separately or mixed with other orchids.

Odontoglossums crispum, Pescatorei, etc., were barely known in 1870 and today they are grown by the hundred thousand. Such strides has the culture of this genus made that where one plant was grown less than twenty years ago now whole houses are devoted to these, the most chaste and beautiful of the orchidaceous family, embracing, as it does, so many lovely and graceful forms. These have proven of such easy culture that I hope the day is not far distant when no gentleman who has a greenhouse will be without his collection of odontoglossums and masdevallias.

The masdevallias are a class which appeal more to the gardener than to the florist, but no collection of orchids should be without them. Grown under the same conditions as applied to odontoglossums they thrive well and have increased largely during the past few years. Twenty years ago I knew of about half a dozen species worth growing. Mrs. Ames' collection today comprises more than one hundred varieties exclusive of our own houses. A north house with a temperature of 55° by day, falling in severe weather to 45°, suits them exactly. Keep them well to the light with plenty of moisture, atmospheric as well as at the roots.

And Miltonias, the genus which now embraces the types originally known as Odontoglossum vexillarium and Roezlii. How well I remember in the spring of 1872 when I was with that indefatigable grower, John Seden, then as now in Messrs. Veitch's, when Chesterton brought one case of vexillariums, out of which about seventy-two plants were saved. That was the sensation of the time, the famed scarlet odontoglot. Wallis and Roezl had failed in previous attempts to deliver this plant alive, and these therefore were the first to survive the journey from their native habitat. Where and how to grow them was the question. They were tried cautiously in several positions and watched carefully through that summer with motherly care, and by February of 1873 the first Miltonia vexillaria flowered in cultivation and was sold for one hundred dollars, since which time, owing to collectors exercising more care, importations have occurred without much difficulty and the culture of these plants has increased rapidly. The flowering season now extends from February to August and numerous fine varieties are constantly appearing. But the marvel of the past three years is the hybrid Miltonia Bleui splendens, the result of a cross between M. vexillaria and M. Roezlii. It was raised by M. Bleui in Paris and Veitch, London, in 1889-90. The flowers are about four inches across vertically, lip about three inches across, the sepals and petals white, suffused rosy purple, the lip white with fan-tailed red and brown blotch in front of disc, which is yellow with deeper lines on crest. This plant flowers in April and lasts over one month in perfection.

Calanthes are another genus which has responded to intelligent cultivators very rapidly since the time Mr. Dominy produced that beautiful hybrid, C. Veitchii, which was the result of fertilizing C. vestita with Limatodes rosea, and which at that period was hailed as the coming decorative orchid. Since that time, however, many new and valuable species have been imported; these in turn have been submitted to the hybridist's art and the result is marvellous for calanthes. Great activity has of late been displayed in the raising of these hybrid calanthes, and success has been achieved in the production of the darkest and richest forms not even dreamt of ten years ago, and the good work is still going on.

Cœlogynes, though not yielding to the hybridist's skill as yet, have made wonderful advances. They will grow like weeds and will flower equally free. They are easily increased and will respond generously to proper treatment. To those who have not tried them in baskets or pans suspended near the glass I would recommend that they try it. Such plants when in flower amply repay any trouble and can be used as decorative plants either on stands or suspended from brackets. Maxima and Leonoreana are desirable kinds, as also the pure white form hololeuca, which is of exceeding easy culture. From twelve bulbs received seven years ago we have one plant today four feet in diameter and two more which are nearly two feet across. It is a variety I can thoroughly recommend, it being absolutely white and a charming mass when in flower.

No genus has attracted the attention of people so much as cypripediums. Large quantities of these plants have from time to time been imported, including among the most notable the stately Rothschildiana, the distinct and highly colored Chamberlnini, the spotted bellatulum, the Shuttleworthi, which eclipses the Spicerianum and others equally beautiful. When I was with Mr. Seden in 1872 there were three hybrid cypripediums and one selenipedium which had flowered up to that time, since which time so many people have become interested in them that new seedlings are appearing so rapidly that it is now impossible to keep a record. The most unique and valuable species to-day are without doubt Stonei platytænum and Fairieanum and the most valuable varieties are C. Lawrenceanum Hyeanum and C. insigne Sanderæ, the golden form of insigne and to me the most charming of them all. It would be impossible to enumerate all the beautiful hybrids which have been produced, but I must not omit the grand hybrid Morganæ, which approaches nearest to the rare and unique platytænum and stands to-day number one. Everyone should

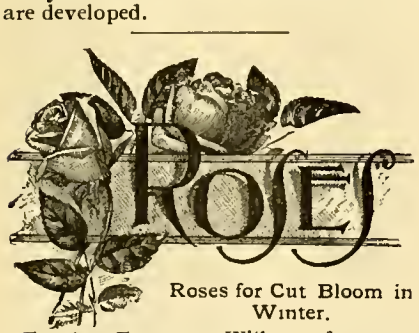


Scale
6 Inches.

CARNATION DAYBREAK AS SHOWN AT THE INDIANAPOLIS MEETING.

grow cypripediums. There is no time from January 1 to December 31 when you are without flowers and when cut they will last a long time in good condition.

There are still many more examples which could be cited to prove the progress made in the development of orchids, in oncidiums, phalænopsis, phajus, cymbidiums, etc. But for the present enough has been shown to demonstrate that there is an increasing demand, also to prove that the people are becoming more and more interested and also more enthusiastic in their desire for instruction and to become more conversant with the many marvels which from time to time are developed.



Roses for Cut Bloom in Winter.

ED. AM. FLORIST: Will you favor one of your European subscribers with information on the following points regarding the forcing of roses for cut bloom in winter:

1. What is the maximum distance from the glass at which roses may be successfully forced in winter—locality well open?
2. What distance apart should tea roses be planted apart on the benches.
3. Which are the best *red* tea or hybrid-tea roses for forcing, combining vigor, good color, erect stems, freedom of bloom and continued bearing?
4. How does the planting out in beds answer as compared with benches?

BELGIUM. H.

[Mr. John N. May has kindly prepared the following answers.—ED.]

1. This will have to be regulated according to the variety grown; for very tall growing varieties such as Mermet, Bride, Bridesmaid and others of that class an average distance of from four to five feet from the glass, but for dwarfer growing varieties such as Niphetos and others of that class they are better if placed say two, or two and a half feet from the glass. The great thing to consider is to place them so that they get full exposure to all the sunlight possible.
2. The best distance we have found in our long experience in this is about an average of fifteen inches each way for nearly all the varieties that are forced for market in this country. Some of course can plant them a little closer where the plants do not grow so strong.
3. The variety that in this country today takes first rank in this way is Meteor. This is almost identical in color with Jacqueminot, it requires, though a rather higher temperature than the ordinary tea roses. The next in point of merit, and in fact in many respects the superior of the above, is Souvenir de Wootton. This has all the qualities that the other possesses and combines with them a nice fragrance and is certainly a freer bloomer, though not quite so deep in color.
4. For the winter months we cannot procure so many buds on a given space of beds as from the benches, however after a long and careful trial of both systems we have come to the conclusion that it does not pay to have permanent benches at the price at which roses are sold in this country to-day, though for spring and summer use the beds are certainly preferable to the benches. There is one system by which this can be obviated or rather overcome to a certain extent, viz: to build up walls on the sides sufficiently high to bring the plants within the required distance of the glass, a wall of concrete, plank or brick, filling in the same with very large stones at the bottom, gradually reducing until they come within five or six inches of the top, over this place crocking or anything you like to keep the soil from working down in under the stones, and on this place the soil and plant the roses. If provision is made in constructing the side walls to carry air chambers through it it is also advisable, as it admits of more air at the base, thereby helping to dry up any surplus of moisture that might be carried down the strata of stones, and at the same time helps to conduct a little warmth to the roots. This, as your correspondent will see, is a modification of the ordinary planted out beds, and plants properly treated under such conditions will last for several years and if carefully handled will produce large and abundant crop of flowers. JOHN N. MAY.

Which Are the Most Profitable Varieties of Roses For Winter Forcing.

BY JOHN BURTON.

[*A paper prepared and read before the Philadelphia Florists' Club at its February meeting.*]

I shall no doubt fail to answer this to the satisfaction of you all, for I suppose you expect me to name varieties, and this I cannot do, as in my experience no one kind has been continuously more profitable than some others. If it is intended that the answer of this be asked as a guide for future planting, I would unhesitatingly say, the most profitable roses are those you can grow best, of course confining the varieties to those known to be salable.

One great mistake growers make, is to think that because their neighbor is growing some rose well and probably making something out of it, they must go into it as the only means of making money. It is well enough to try other varieties but if after a reasonable test they do not succeed, drop them at once. In the present state of the Philadelphia market there is plenty of opportunity for a man to grow specialties, or a few varieties in quantity, and this I believe to be the best plan, where the market is large enough to use big lots of one kind. Where a man has a special trade that requires him to furnish a great number of sorts it will sometimes pay him to grow kinds that he cannot handle so well and profitably as others. He may be located in a small town where it is necessary to have several kinds in stock; he may have a store and use all his own flowers there; or he may sell his entire product to one retail florist, who wishes him to supply a large variety. But when near a large town or market let him select the few varieties he can grow best and I believe he will secure the most profit in this way.

I personally know of several places where one variety has been grown better than others for several years and yet they have not confined themselves to these kinds but have attempted to try others because some one near was growing them well and presumably with a profit. In one case La France has been profitably

grown for three years in a small house, there being something about the soil or treatment, perhaps both, that it seemed to like, this being by far the best paying house on the place each year, the proprietor wishing during the flowering season that his whole place was in this rose. But why was it not all in this kind? Because he had been told that some one was getting fifty cents for Beauties, while he was only getting ten for La France, or he had visited some place where an extra good house of Brides and Mermets was just in crop with apparently more profit in sight than his La France house would bring him. Seeing these results he comes home determined to try his hand again with these varieties, hoping next year to get the big crop of Brides and Mermets and the high price for American Beauties. I do not say that Brides and Mermets could not be grown on this place, but I do say that with the same soil and treatment they have not done as well or been as profitable as La France, although there had been more money spent and more care taken to made them a success.

I do not for a moment advocate depending only on one variety and not trying new or old sorts that have not yet been tested on the place, but I do contend that in a majority of cases the rose that does the best with the grower will be the best for him to grow. If it were possible to see into the future and tell which would be the fashionable rose, which the favorite color, or if some particular variety would be scarce and in great demand, it would be easier to tell the sorts to plant for profit, but as this information can only be guessed at I would say do not be guided too much by what you *think* will be fashionable or scarce.

Referring to the original question I will attempt to show how impossible it is to answer it directly by mentioning some of the large growers for the New York market. It has been reported, with what truth I do not know, but still I think it very probable, that Mr. John Taylor's most profitable roses for several seasons were Watteville and Cusin; Messrs. Pierson were most successful with Meteor, and with Mr. Nash American Beauty was most profitable. Here we have four different kinds all going to the same market yet each showing most profit for different establishments.

Not being able to give a decisive answer to the question selected by you for discussion I have taken the liberty of giving a little advice for which I trust you will pardon me.



Carnation Notes.

We are now coming into those bright spring days when all the ventilation is needed that it is possible to give the houses. If your houses are not arranged to ventilate at the top and the bottom or sides it will pay you well to take out every alternate glass at or near to the bottom and arrange it so that they can be quickly removed and put back. There is nothing will help keep your carnations in a healthy, vigorous and blooming condition at this season of the year so much as plenty of good fresh air, and when we get those mild spring-like days it is best applied at both the top and the bottom so as to produce a good free circulation. Don't be alarmed if there is a breeze blowing over the plants providing that breeze is moderately warm. An old work on the growth and habits of plants that is filled with good practical points says the mechanical action of a light breeze is beneficial to plant growth and suggests that in lieu of getting this in the greenhouse syringing be adopted.

Care must be taken at this season with the watering; plants will need considerable more water than during the winter months; at the same time care should be used that the soil is not over-wet on very bright sunny days or you will have a rank soft growth that will give you awfully weak stemmed flowers.

Syringing should be done early in the morning so that when the sun gets well up on the houses it will have something else to evaporate without calling on the plants to supply the necessary humidity to the air. I do not think it advisable to syringe twice a day unless you find indications of red spider. If you do it is best to do it about noon when the sun is the hottest and the spiders are most active; a real good syringing then will destroy more than either the early syringing or a later one. If you do not have the spider and find that the air in your houses is getting too hot in spite of your good ventilation, apply water to the paths and sides of the houses in preference to using it over the plants. These remarks are as applicable to the young stock as to the old blooming plants.

It is not unusual to find a superabundance of side buds forming at this season and if you wish to be on top of the pile when your flowers are marketed it will pay you well to pull them off. A three-dollar-a-week boy can do this as well as a more experienced hand can and besides he will come in handy for many odds and ends about the place and relieve your regular hands over the busy spring rush.

Do you know that if you are propagating from plants that are grown for bloom the very best cuttings you can have are those taken about this time when the wood has been well hardened up by plenty of sunshine; that is, providing you have had sufficient ventilation on the houses to keep them in good shape.

ALBERT M. HERR.

Carnation Notes.

In the AMERICAN FLORIST of Feb. 8, page 600, Mr. Albert M. Herr, in his notes on seedling carnations, says that in experimenting on this line it will be well to recognize the fact that self-fecundation is abhorrent to nature, and that much better seed can be produced and the seed produce better plants if they are artificially fertilized. Now is this a fact? We have reasons to doubt it because we have ample evidence that self-fecundation is not abhorrent in nature, for so much of our seed is produced by self-fertilization that nature answers this question. If we only look carefully into the different species of plants that are self-fertilizing, we will find they abound on every hand.

Take the Leguminosæ family, it is self-fertilizing, and it has existed for thousands of years, and not degenerated, for did not Esau sell his birthright for a mess of pottage of lentils and is not the lentil as good to-day as it was then. It is a self-fertilizing plant. The pulse family are all self-fertilizers, and embraces some of the most beautiful trees, shrubs and plants. The cereals are nearly all close fertilizers.

Examine a canna closely and you will find the foliage is all over the stigma before the flower has a chance to be crossed. I saw a bed of Mme. Crozy cannas from seed last year equal to the named parent, showing it would take very little care to introduce a race of cannas that would come true from seed, and it is doubtful if a lot of Mme. Crozy cannas of that sort is not now on the market.

It is crossing that gives diversity and uncertainty to our seedling. We are continually confounding plant life operations with those of animal life; really they bear little relation to each other. If we look carefully into nature, we will find cross-fertilization the exception and not the rule, and no abhorrence or degeneration is apparent. I might go on and name many species of plants that do not cross, nor really have they any opportunity to cross.

If Cæsar carnation was grown in a climate like California where it could stand the winter, grown apart from other sorts of carnations, by careful selection of the best no doubt a race of carnations could be produced that would come true from seed.

Selection is of greater importance than hybridizing or crossing. Hybridizing species produces new combinations. Then the work of selection and improving begins. Having an ideal in your mind then select to bring the flowers up to your ideal. The work is slow but sure. A. GILCHRIST.

Sleepy Carnations.

I experimented with two houses of carnations this winter. Noticing that most of the growers advocate a night temperature of 55° to 60° I grew one house at that temperature, and one at 45° to 50°. I also used liquid cow manure once a week in the warmer house. The carnations cut from the warmest house were the finest carnations I ever grew, averaging about 2¾ inches, many measured 3½ inches, but as the Philadelphian says, they were sleepy and one day in a house temperature of 75° to 80° was all they would stand and complaints were universal, while the flowers from the cool house, though not quite so large, would last in the same house three to four days.

The question that arises is can we force carnations or had we better grow them cool and have a lasting flower.

GLENS FALLS, N. Y. A. J. B.

Keeping Qualities of Carnations.

Referring to the keeping qualities of carnations Mr. Doraer said in conversation with the writer at Indianapolis that he found the flowers that kept the best after being cut were those of varieties that produced but little pollen or in which there was some defect of the reproductive organs that prevented self-fertilization. As soon as fertilization takes place the flower begins to go to sleep and to make flowers last well this must be prevented or delayed.

New York.

A very pleasant feature at the March meeting of the Florists' Club was the installation of President O'Mara and Vice-President Asmus, both of these gentlemen having been prevented by sickness from attendance at the previous meetings of the year. The retiring president, Mr. Manda, in introducing his successor, thanked the members and especially those who had served on committees for their support through the past year and was



Scale
6 inches.

CARNATION MRS. ELIZ. REYNOLDS AS SHOWN AT THE INDIANAPOLIS MEETING.

glad to state that the organization was strong financially and numerically nearly double what it was one year ago, predicting that the coming year would be the most prosperous in their history. In responding Mr. O'Mara promised to do all in his power for the club's welfare, sacrificing his private interests where necessary for the good of the organization and hoping for the same hearty support that had been accorded his predecessors. The other officers-elect followed with similar sentiments.

The committee on the legality and advisability of taking stock in or endorsing the scheme of a proposed palm garden made an adverse report, which was accepted. The question of a club headquarters, which had been assigned to this meeting, was after discussion referred to the executive committee. The committee entrusted with the settlement of the spring show question reported unfavorably and their report was adopted. The matter of a fall show was discussed and finally left to the next meeting for decision. The inadequacy of the greenhouse buildings in connection with the public parks was also brought up and New York's inferiority to other cities in this respect commented upon with the result that a committee of ten gentlemen was appointed to agitate the matter and confer with the park commissioners.

The introduction of the subject of duties on various imported plants and roots as contemplated in the Wilson bill started quite a flow of oratory, but the advocates for protection on these goods soon demonstrated that they were in a great majority, and those favoring the other view obligingly abandoned the set-to, and so the duty may go on without molestation as far as the New York florists are concerned. A proposition from the Farmers' Club looking to co-operation between that body and the Florists' Club in giving exhibitions and public lectures in a manner similar to that pursued by the Massachusetts Horticultural Society was referred to the executive committee. Four new members were admitted.

Among the new and interesting palms shown for the first time at the spring exhibition of the United States Nurseries were Pritchardia Thurstonii and Chamædorea Pringlei. Phytelephas macrocarpa, the Ivory Palm of South America, which is not yet in the trade here, is believed to have a bright future as a commercial decorative plant. It is a very rapid grower, specimens less than two years old being already three to four feet high and the foliage is exceedingly graceful. Cocos Botyracea is another valuable introduction from South America. In its small state it is similar to Phœnix reclinata. Another palm not yet in commerce, but which promises to be a useful plant for florists' use is Sabal glauca. There is a fine young stock of this coming on. Among Mr. Lager's South American collections are a philodendron with large foliage and yellowish variegation, and a very showy tillandsia with richly colored inflorescence and very dark blue flower. Also several new ferns, among which are two adiantums, one a free grower resembling scutum, the other an odd looking glaucus foliaged sort. Some seed of Pteris tremula and Smithiana sowed here recently seem to have got mixed, the result being a form intermediate between these two, having the dark stems of Smithiana, but not so stunted in habit nor so deeply crested as that variety.

Cut flower trade continues dull and the remarkable warm summery weather prevailing has brought in large quantities of flowers which have been disposed of necessarily in large lots at very low prices.

It will be perhaps cheering news for the growers and others that ten Dutchmen landed from steamer Spaardam and are now loose, starting the bulb season in America. These gentlemen should have due encouragement, not forgetting that there are more of them to follow, so that they may when they return home take with them hearts full of love for our beautiful country and its enterprising florists.

Have you noticed that in the Senate finance bill they propose placing a duty on orchids, lily of the valley, azaleas, palms and decorative plants, etc.?

J. G. Hallock, for many years confidential clerk for Theo. Pabst & Co., at 26 Barclay street, has been arrested, charged with misappropriating the sum of $65,839 of the firm's money and thereby causing its recent assignment.

Philadelphia.

The February meeting of the Florists' Club was well attended and the proceedings were of much interest to those present. Two new members were elected, and reports of committees showed that the work in connection with the next convention was progressing favorably. Mr. Burton's paper on "The most profitable roses for winter forcing," was the feature of the evening and caused considerable discussion. [It appears elsewhere in this issue.—ED.] In the discussion that followed W. Smith said "Mr. Burton is right, grow what pays the best and does the best for you." Mr. Heacock said, "Mr. Burton has put it in a nutshell." On being asked a question about Meteor Mr. Burton said it was as profitable as other tea roses and while it did not open very well in dark weather in midwinter it was no worse in this respect than most roses; it wanted more heat than most varieties. Mr. Becker said that he felt he was a small turnip in the patch, but he had been acting on Mr. Burton's advice and had been doing best by sticking to those varieties that he seemed to be most successful with.

Some discussion as to the effect of the new move of John Wanamaker in opening a cut flower department was indulged in and expressions both of approval and otherwise were called forth, it seeming to be the general impression, that it would work no injury to the growers and little if any to the dealers.

President Lonsdale gave a short account of his trip west and spoke in glowing terms of the show and the work of the convention. He had paid a visit to Mr. Dorner's carnationary and said that he was without doubt the foremost carnation grower in this country. He particularly mentioned the Stuart as Mr. Dorner had it and thought it a very fine variety. Goldfinch had a very stout stem but the flowers were rather undersized and there was not enough life in the color; it seemed very prolific. Mr. Dorner used a great deal of manure in his soil, about half which would be ruinous with us here, but the western soil seemed much lighter and could stand this enriching. Mr. Walter Coles' place was also visited and Kaiserins were seen which were a revelation to the visitor. They were growing in beds in the ground with pipes through the soil to give a slight bottom heat; the flowers were borne on very long stems and were larger than any Beauties he had ever seen; they were the perfection of form and truly magnificent in every respect. Mr. E. G. Hill's place was inspected but not much in flower was seen as his establishment was a plant and not a flower factory. Mr. Hill is a great manufacturer of plants, but can also set his machinery to turn out some winners in the cut flower line, as is evidenced by the trophies he has on exhibition.

The carnation show of the Chester County Carnation society was opened in the third story of Wanamaker's Grand Depot last Thursday morning. There

were about ten thousand flowers arranged in vases with from one dozen to a hundred blooms in a vase. The most numerous variety was Portia, of these there were quite a few vases of really fine blooms. Other standard sorts were L. McGowan, Hinze's White, Wilder, Anna Webb, Buttercup and Tidal Wave, which latter looked as good as any. There was also a lot of seedlings, pinks of promise some of them, and others anything but promising. Many of them looked as if a little Chester county air was needed to move their drooping spirits. Messrs. C. H. Allen and Dailledouze Bros. of New York, brought over and staged some flowers. Bouton d'Or by Dailledouze was very fine. Wm. Scott, Mme. Albertini and Daybreak from Mr. Allen were also excellent flowers. Fine vases of Helen Keller and Grace Battles, exhibited by Edwin Lonsdale, also added beauty to the show. Nathan Smith & Son of Adrian, Mich., sent a few Mapledales, a sort of Daybreak pink, and H. E. Chitty exhibited Spartan and several others.

The flowers were arranged on stage tables with three steps, such as are used to show off bric-a-brac, and the effect was good. The flowers were for the most part arranged the night before and many of them presented the proverbial sleepy appearance by the noon hour. If some of the professors with the long prefixes and affixes would analyze this tired feeling which seems hereditary to so many carnations and let up on the bugs and other bugbears for a time, something might be done. What value is a carnation that goes to sleep within twenty four hours after it is cut? Such a flower is a source of annoyance to every one who handles it, the grower, the dealer and the most important of all, the consumer, are alike disappointed and in most cases their expressions are anything but divine. We will guarantee that the entire expenses of a meeting of the Carnation Society that will give us a remedy for this defect, no matter where it is found, will be gladly borne by the florists of this city. All other questions are as nothing compared to this, for if the people lose confidence in the carnation, the society will soon pass out of existence.

The exhibits were renewed on Saturday and the show as a whole was a very creditable one. Mr. Dorner sent a vase of the new variety The Stuart, which arrived in fairly good condition. Bouton d'Or was the only kind that lived throughout the show; it presented quite a fresh appearance on Saturday afternoon. Eureka, a new bright pink exhibited by Thompson Bros. of Kennett Square looked well, as did vases of Sweet Brier and Ophelia. The Chester County society deserves a great deal of credit for this show which cost them considerable and for which they received nothing directly in return, if we may except the pleasure it gave the visitors. Even the press let them severely alone, as there was not a line in any of the papers except the paid advertisement in Wanamaker's regular columns.

Business has been very quiet the past week and prices have taken a tumble, in fact they have gone all to pieces. It was reported to be hard to get even the fakirs to take stock at almost nothing. Roses, such as good Brides and Mermets, going for less than one dollar a hundred, is enough to make the average grower sick. The fakirs said they couldn't give them away.

The regular quoted prices are, Mermets, Brides, La France and Meteors, $4 to $6; Watteville, Cusins, Perles, Gontiers, Niphetos, $3 to $4; Beauties and Belles, $10 to $20; Laings, $25; Brunners, $30 to $40. All these prices become very pliable on the slightest inclination of the buyer to invest in any quantity. Carnations sell at from $1 to $1.50 and $2 for the fancies. Valley is $2 to $3, daffys $3 to $4; tulips while not at all plentiful seem very hard to sell at from $3 to $5; sweet peas are in and sell for $2 per hundred.

There promises to be an immense stock of Easter plants, and while most florists are not praying for fine weather now as in most cases the stock is too far advanced, they are all hoping that old Prob. will do something grand the week following.

A visit to the growers finds many places with the sheds full of lilies, azaleas, and other stock being kept back as much as possible, while the houses are covered with mats or slats or a thick cover of white wash and the air all on. The exceptionally warm weather has upset calculations and makes it especially hard for the grower of Easter plants. Robert Craig, who has five thousand plants of lilies in good shape, says he will not grow so many again. The price has got so low that it does not pay for the trouble they take to get them all in on time. They have to be sorted so often and moved from one house to another, some to be kept cool and others hot, perhaps to the detriment of other stock, that at the present price they do not pay, and this seems to be the experience of all the large growers.

Easter stock is situated about as follows: Mr. Harris has a good lot of lilies, hydrangeas, spiræas, hyacinths, pot lilacs, and is especially strong on genista; his stock of this last is particularly fine in all sizes, and a fine lot of valley in pots. Mr. Craig has the largest stock of lilies and they are fine. He is easily first in quantity of azaleas (about 5,000 plants) and his Astilbe compacta is excellent, best we have seen. Daffs in pots and tulips in pans, as well as hyacinths, he has in immense quantities. Jacob Becker has fine hydrangeas, lilies, azaleas, and his roses in pots, such as Plantier, Magna and Brunner are extra fine. He has the rose market almost to himself. G. Anderson has a big lot of hydrangeas, for which he is famous, and a lot of lilies. Griffin Bros. of Frankford, have fine lilies, hydrangeas, hyacinths and some pot roses. Chas. Evans has a big lot of lilies, hydrangeas and spiræa. J. W. Colflesh has carnations in pots, azaleas, lilies and daffs. H. A. Dreer has a great many azaleas, mostly in small sizes.

It is estimated that there will be about 60,000 plants of longiflorum and Harrisii ready for Easter. Lilies are now offering at from 8 to 10 cents per flower, no charge for plant; 10 is the price held by most growers for good stock. Spiræa $25 to $34 per hundred, 6 to 8-inch pots; hydrangeas 50 cents to $1.50, in 6 to 8 and 9-inch pots; azaleas 40 cents to $1 and $2 for the most popular sizes in 5 to 8-inch pots; genistas 50 cents to $2.50 for the popular sizes, 6-inch bringing 75 cents to $1, extra large $3 to $5; hyacinths $8 to $10 in 4-inch pots; tulips 50 cents for pots of 12; valley 50 cents for pots containing about 20 pips. K.

Boston.

The monthly meeting of the Gardeners' and Florists' Club on the evening of March 6 was unusually well attended, the great attraction being the announcement that Mr. Wm. Robinson would read a paper on Progress in orchid culture. Mr. Robinson's paper is presented on another page in this issue. After he had finished reading he said that he noticed several orchid fanciers present and that if they had any questions they would like to ask he was ready to be tackled.

In reply to an inquiry by Wm. Martin regarding the length of life of a cattleya under cultivation he answered "from time until eternity."

Mr. Wm. Ingraham, representing Hugh Low & Sons of England being present was called upon, but responded with considerable reluctance, he being a very modest man. He said he would like to see the orchid question taken up more generally by florists than it is.

Jackson Dawson claimed to know nothing about orchid cultivation. He had, he said, a few hanging on the wall at the end of his greenhouse and his experience was that he could knock more fun out of a dozen orchids than out of any other class of plants that could be mentioned. His method of cultivation was very simple—when he passed with the hose if the plants looked dry he gave them a slap with it, if not he let them alone; there was no time of the year but what he had a couple of plants in bloom. He had once tried to kill a Dendrobium nobile by dipping it in a manure barrel every other day, but he did not succeed, and it is a big fellow now.

In reply to a question as to the advisability of leaving the tissue on the pseudobulbs of cattleyas or pulling them off to prevent scale harboring underneath it, Mr. Robinson said that the tissue is a protection to the tender bulbs and was intended to stay there until the bulbs were thoroughly ripe, but as of two evils it is always best to select the lesser, he would advise the removal of the tissue if scale should appear, as the scale is the greater evil.

The discussion was participated in by David Allan, M. H. Norton, James Wheeler and others, the general sentiment seeming to be favorable to a more extensive cultivation of orchids for commercial purposes.

Saturday evening, March 10, was a gala occasion for about twenty-five of the boys, who by a preconcerted arrangement gathered in the banquet hall of the Thorndyke Hotel. As all such reunions have a special end in view, so in this case the object sought was to make formal recognition of many past favors received and to pay present respects to their friend, that prince of jolly good fellows, Mr. Edward Hatch of plant auction fame.

The important duty of capturing this gentleman and enticing him to the feast was entrusted to Mr. M. H. Norton, a gentleman well qualified to act in this capacity. So when at the appointed hour the guest of the evening was ushered in and beheld the gathering of old friends, the tables laden with flowers and other evidences of coming hilarity it was with genuine surprise depicted on his countenance, and it was not until he had been been placed in the seat of honor and his eye rested on the special decorations of the bill of fare placed before his admiring eyes that he began to take in the situation and remarked "Ah! I begin to see."

All the boys were there. President Welch of the G. & F. Club presided and at his left sat the indispensable toastmaster in the person of Hon. C. W. Hoitt, who came armed with apt quotations from famous authors both ancient and modern wherewith to introduce the various speakers and at the same time call attention to their individual characteristics. So from the introductory, "I'm from New Hampshire, gentlemen," but

"What are these,
So withered and so wild in their attire;
That look not like the inhabitants o' earth,
And yet are on't?"

to the closing "Our revels now are ended" there was a continuous intellectual as well as material feast.

After the coffee had been served Mr. Welch arose, tapped upon his plate with a knife, buttoned up his coat and having struck a proper attitude started the ceremonies by introducing the toastmaster, who as soon as he had got his hands in his pockets and began to talk, was interrupted by Mr. Norton, who, turning to Mr. Hatch and addressing him in a few congratulatory words, presented him, on behalf of his gardener and florist friends, with a beautiful diamond ring. The recipient was caught for once where words were hard to find, a rare occurrence in an auctioneer's life, but he managed to express briefly and feelingly his deep appreciation of the occasion, whereupon he was pronounced in vociferous chorus to be "all right."

Judge Hoitt followed with a poem of much merit as a literary production, aside from the aptness of its references to the virtues and the failings of the individuals present, the central idea being

"Then here's to Hatch, our genial guest!
Drink quick, for no one knows
When the auctioneer'l replace the guest,
And then the whole lot goes."

Interspersed between the speeches the proceedings were enlivened by Warren Ewell's harmonica solos, W. J. Haynes' piano selections, Elijah Wood's songs and last, but not least, Mr. Ireland's delicious punch, generously contributed by that gentleman. Like all good sensible Boston gatherings the party broke up in time for the eleven p. m. trains.

The lecture at Horticultural Hall on March 10 was by Mr. Sylvester Baxter, ex-secretary of the Metropolitan Park commission, who gave an interesting account of the work of that commission and a description of the grand additions recently made to Boston's great public pleasure grounds in the form of over seven thousand acres of forest reservations, including the Middlesex Fells to the north of the city and the Blue Hills to the southward, also the plans for further acquisitions to the park system in the immediate future. On the exhibition tables were a collection of unusually fine hybrid roses from James Comley, Cherokee roses, Cypripedium parviflorum, etc., from C. J. Dawson of the Bussey Institution, and a plant of Dendrobium nobile nobilius from C. F. Lunt. A. H. Fewkes also showed a vase of Antirrhinum majus which exceeded in beauty any outdoor grown specimen, and called attention to the merits of this flower as a forcing variety.

George Wilson's greenhouses at Malden are worthy of a visit just now, as there are 50,000 or more Ulrich Brunners in splendid condition and various stages of forwardness, the prospects for a big Easter cut of this favorite variety being excellent.

Miss Flora Welldon, daughter of N. S. Wax, the florist, who has just returned from Europe, has given her Boston friends an opportunity to hear her sing. She has a superb voice, highly cultivated, and is assured of a brilliant future. Mr. Wax may be pardoned for feeling very proud.

Strangers in town: August Rolker, New York; Wm. Swan, Charlestown, N. H.; Wm. Ingraham, London; and H. J. Goermans, Hillegom, Holland.

Chicago.

The market last week was quite active. Although no great scarcity of any one article can be reported yet almost everything in salable condition is cleaned out by night. The demand for good stock in roses is particularly brisk, and carnations also are in good demand. Violets sell well, and are disposed of in large quantities but often at very low figures. Bulbous stock remains inactive, but shows some sign of improvement. Valley is in fair demand and some extra good stock sent in by Mr. Jurgens is noted. Tulips are very slow, but daffs are in better demand. Dutch hyacinths also are more freely called for. Of these we find some very fine stock at present. Smilax is looking up. The season for spring openings of our leading mercantile establishments is at hand, and smilax, which has been relegated to obscurity for months past, will form an important part of decorations for such purposes. There is also an improved demand for galax leaves, but these latter are getting scarce and are of very poor quality, as the season for them is over.

Prices are nearly the same as reported last week. Beauties, long stemmed, in very limited quantity, $3 per doz. for the best, $2 for seconds, short from 50 cents to $1. Hybrids are in fair supply and good demand. Brunners and Laings $3 to 4, second quality $2. Jacques come in quite freely, the best bringing $2, seconds $1 to $1.50. La France, Mermets and Brides, $3 to $4. Perles, Gontiers and Woottons, $2 to $3. Since Jacques have become more plentiful Meteor is in less demand and has dropped to $4. Some magnificent Gontiers are sent in by Geo. Klehm. These find a ready sale at $4.

Carnations, stock average quality, common sorts $1, fancy $1.50 to $2. Violets, the best quality sells at $1 per 100, but large quantities go at $3 to $5 per 1,000. Harrisii $4 to $6, valley $2 to $4, tulips $3 to $4, Dutch hyacinths $4, Romans $2 to $3. Mignonette is offered freely and meets with good demand. At Kennicott Bros. we noted some extra fine Machet.

A very active shipping trade is reported. Apparently the volume of trade in this direction is quite as large as last season, and would seem to warrant the assumption that the country trade is in a more active state, than is the case in our larger cities. Whether this theory be right or not, we are unable to say, but we are inclined to the belief that the fact of the great advantages of this city as a distributing center, is appreciated to a larger extent by both the retailer and grower. It is not an uncommon thing for a commission man to receive a shipment of stock from a grower in a country town, and on the same day ship it back again to a dealer in the very same locality.

The following personal letter was probably not intended for publication but is too good to be wasted. And publicity may help persuade Mr. Chadwick to take out his papers too! "When in Washington recently I concluded to run down to Mt. Vernon, and recharge my system with a double dose of patriotism. Of course I imagined that the current of the said patriotism was as strong in the gardens that George planted, as in the rooms where Martha sewed on his buttons, so I spent most of my time there. Mr. Franklin A. Whelan, the gentleman in charge of the gardens noticed my interest in its contents, and from my strong personal resemblance to Brother Craig, he mistook me for a florist, and ventured to ask me if I was such. Standing over the buried hatchet I could not prevaricate and blushingly answered no, but remarked that I have known one florist in Chicago for several years. This opened up his heart and subsequent developments informed him that I was the humble secretary of the Hort. Soc. of Chicago. Then the place was hardly large enough to hold me, and his courtesies culminated with his presenting to the Hort. Soc. of Chicago a gavel made of locust wood grown on the place. Now if we can get Pres. Chadwick to take out his naturalization papers, and swing this gavel at our meetings, good luck will follow us."

At a special meeting of the Horticultural Society of Chicago, held Tuesday, the 13th inst., the following self-explanatory resolutions were adopted:

WHEREAS, The Horticultural Society of Chicago taking a deep interest in the welfare of the Parks of our City, and believing that the excellent results attained in them in the past are due to the fact that political considerations have been excluded from their management, and that the present standard and further progress can be maintained only by the continuance of such policy, learns with dismay that one of the most thoroughly competent superintendents of one of our principal parks, viz., Mr. J. A. Pettigrew, superintendent of Lincoln Park, is about to be removed for political reasons; therefore be it

Resolved, That this Society express emphatic disapproval of such displacement for such reasons, believing that a most serious danger menaces our parks in the establishment of such a precedent, which will open the way to the removal of the present experienced and competent employes of the parks that their places may be filled by political incompetents, which cannot fail to result in an immediate lowering of the standard heretofore maintained.

Resolved, That the members of this Society have noted with pleasure the good work done by Superintendent Pettigrew in Lincoln Park—work that has shown broad knowledge of ornamental horticulture and rare administrative ability, and that the removal of such a man would prove a most serious loss to our parks, in any event.

Resolved, That the members of this Society, regardless of individual political affiliations, earnestly protest against such removal, and against the establishment of political qualifications as necessary to the holding of positions in the service of our parks.

The Florist Club at its last meeting also adopted resolutions as follows:

WHEREAS, It has come to the knowledge of the Chicago Florist Club that an attempt is being made to secure the removal of Mr. J. A. Pettigrew as Superintendent of Lincoln Park for political reasons, and

WHEREAS, This Club, composed of members of all shades of political faith, and including every important florist in Cook County, views with alarm any action that will tend to establish any other qualifications than ability and fitness for the place as essential to the tenure of such positions as that held by Mr. Pettigrew, and

WHEREAS, This Club, composed of professional horticulturists, and feeling itself competent to judge of such matters, is convinced that Mr. Pettigrew is the ablest superintendent Lincoln Park has ever had and that it is extremely doubtful whether another man of equal ability could be found to take his place, and surely none possessing both the ability and the broad experience as to the peculiar needs of Lincoln Park, which can only come by years of conscientious study of existing conditions under which results must be obtained, which experience has made possible the splendid progress toward making Lincoln Park what it ought to be during the last few years of Mr. Pettigrew's superintendency; therefore be it

Resolved, That this Club place itself on record as most vigorously opposed to the removal of Mr. Pettigrew from the position he has filled with so much credit to the profession, and that a copy of these resolutions be forwarded to the Hon. Board of Commissioners of Lincoln Park.

Buffalo.

Beautiful, bright balmy days abide with us, which is very conducive to getting a large lot of flowering plants in fine shape for Easter. Although I hear of several lots of lilies and azaleas that are a little too previous there promises to be a fine show here of all Easter stuff. Mr. Milley has a fine lot of lilies just about right. Mr. Sebastian Pickleman has a great crop of bulbous stuff, which looks to be the right age. Mr. Belsey has a fine lot of

lilies and azaleas which will hit the mark as near as possible. A very noticeable feature of Mr. B's establishment is a house of Mermets and Brides with a few Woottons, although in a house which is by no means the ideal rose house. The plants are and have been all winter looking remarkably fine for the space occupied. An immense crop has been taken from this house.

Mr. James Buxton of Niagara street was next visited; his specialty is violets, pot carnations and young palms. Mr. B. says his violets have scarcely yielded the crop of a year ago. His pot carnations are fine and are bound to sell well at any date. His favorite varieties for pots are old Garfield, Puritan and Grace Wilder.

A look in at the houses of Mrs. D. Newlands near Forest Lawn showed us a fine lot of lilies, azaleas, spiræas, etc. in good order for the coming holiday. As Mrs. N. does a very large cemetery trade in the spring a large proportion of her three houses is occupied with plants for that purpose.

Mr. Joseph H. Rebstock's fine houses are well filled with Easter stuff, noticeably azaleas and lilac; the latter have been most successfully forced the whole winter, Mr. Bishop, Mr. Rebstock's manager, tells me it is no trick at all. They are imported pot grown plants and force with ease.

On my way home I called in on the genial Christenson. His place is very gay with flowering stuff, a grand lot of cinerarias in most excellent shape. Lilies with 15 to 16 buds and flowers a few days earlier than is desirable. A mighty fine lot of azaleas but rather too early. However I am sure the veteran will manage to bring them before the public on Easter Eve in good order as he usually does. His violets are in fine shape and has helped pay for many little necessities—some call them luxuries—this winter. I was sorry to find Mr. Christenson suffering from a sore throat; he treated it as a trifle and said it was caused by his hollering to his Bermudas to stop growing higher.

I finished up the afternoon at the Cold Springs houses of Wm. Scott. He has a very large lot of most all kind of Easter stock and seems to have hit the date about right. I noticed a fine lot of Dendrobium nobile well flowered for Easter and which he feels sure will sell as plants. He grows a thousand or two of Lilium longiflorum, three bulbs in a pot, which he says are fine for cutting. Mr. S. says cytisus is selling this year better than ever, although he thinks it anything but a good house plant. Several hands were busy getting in flats of tulips, etc. to come in after Easter; Mr. S. anticipates a brisk and paying demand for this sort of stuff a little later on. He too I was sorry to find in trouble with a much inflamed left eye. I think it was the right that was left all sound. He assured me no one or anything had struck it, not even a man, but he had strained it looking for spikes of eucharis flowers among the beautiful foliage—spikes that never came.

Business at the stores is bound to feel the benefit of this grand weather, and so they have; flowers and plants have moved off nicely at fair prices. Violets are plentiful and so are carnations, but there won't be many spoiled between now and Easter. I intend to take a trip among the store men this week, and shall next week tell you all about their specialties.

Mr. D. B. Long is off again on another trip to secure some wonders for the great event. W. S.

Baltimore.

At the club meeting little was thought or talked of save the death of Mr. Robt. J. Halliday, who was always an enthusiastic member, and for the first three years of its existence was its president. Resolutions were ordered, and the banquet was indefinitely postponed.

As the annual election had to be held in compliance with the constitution the following officers were elected: President, F. G. Burger, 1120 Greenmount avenue; Vice-President, Wm. McRoberts, Jr., 304 Madison street.; Secretary, Wm. Feast, 228 N. Charles street; Financial Secretary, Wm. Ekas, Carroll P. O., Md; Treasurer, Wm. Sands, corner North and Baltimore street; Librarian, Chas. M. Wagner, Woodberry, Baltimore county, Md. MACK.

HOLLAND, MICH.—Charles S. Dutton has added a new house 20x80.

BETHEL, CONN.—George E. Beard has started a new florist business in this town.

HIGHLANDS, N. Y.—The business heretofore conducted by Mr. Adolph Folger will be run hereafter by Mr. James P. Hayden.

OSAGE, IOWA.—A very interesting and instructive paper on house plants and gardening was read at the Farmers' Institute by Mr. Walter S. Hall, the florist.

FALL RIVER, MASS.—Fire in one of the greenhouses of Andrew M. Lee did $600 worth of damage to stock and about $100 damage to building on February 9. The building was covered by insurance, but there was no insurance on stock. The fire is thought to have been incendiary.

KANSAS CITY, MO.—W. J. Barnes, at 38th and Euclid avenue, has just finished two new houses, one 12x50 and one 20x60, made necessary by his bid for planting and decorating Troost Park being accepted. Mr. Barnes' houses are all heated by steam and piped throughout for water, which is obtained from a well and cisterns.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As all round florist; growing roses, carnations, general stock, ferns, palms, etc.; 18 years' experience. R S, care AM. FLORIST.

SITUATION WANTED—By a young single German, 8 years' experience; either in cut flowers or catalogue trade. Good references on hand. Address H B, care American Florist, Chicago.

SITUATION WANTED—As gardener and florist in private place; French; 8 years in this country, steady, sober and honest. Good references. FLORIST, box 734, Bay Side, L. I., N. Y.

SITUATION WANTED—By a competent florist and vegetable gardener, thoroughly qualified to take charge of institution or private place, married; references good. H F P, care American Florist.

SITUATION WANTED—By Dane, to work in greenhouses. Best references from Denmark and this country. New York or New Jersey preferred. Address NISSEN, 250 Division St., New York City.

SITUATION WANTED—Gardener, single man having 13 years' experience, well posted in growing orchids, ferns, palms, etc. Private or commercial. Address A D, Penn St., Frankford, Philadelphia.

SITUATION WANTED—Commercial or private place by young florist; 9 years' experience, speaks German and English; have worked 4 years in cemetery greenhouses, good references. State wages. FR. QUICKERT, 617 Reservoir Ave., Milwaukee, Wis.

SITUATION WANTED—Thorough, practical florist, German, married, one child; first-class cut flower grower, roses, carnations, chrysanthemums, etc., and general stock; charge of private place in eastern states by April 15th or May 1st. K W, care AM. FLORIST.

SITUATION WANTED—As manager, foreman, or headgardener in commercial or private place; German; thoroughly experienced in florist and horticulture; honest, sober and good worker. Good references H H, care American Florist.

SITUATION WANTED—By young man as assistant on large private place. Understands general greenhouse work, grapes, etc.; has been 5 years in present place and wishes a change. Good references. Address FLORIST, Box 513, Asheville, N. C.

SITUATION WANTED—By an energetic, first class single man, as foreman; thorough experience in all branches. Specialist in rose and cut flower growing. Best references. Ready for engagement at any time desired till July 1st. Please address AM. BEAUTY, care American Florist.

SITUATION WANTED—By gardener and florist; married, no family; English; 17 years' experience; well up in growing roses, carnations, violets, chrysanthemums, and general stock of plants. Private or commercial; age 34. Good references. Address J D, 847 West Main St., Waterbury, Conn.

WANTED—A good rose grower and propagator with knowledge of mushroom culture. State wages. Address CANADA, care of Am. Florist.

WANTED—An experienced rose, carnation and violet grower. Come well recommended. Only first-class man need apply. WIETOR BROS., Highridge, Ill.

WANTED—Foreman for commercial place; must be a practical florist, with years of experience as grower in general. Address IRA G. MARVIN, Wilkes-Barre, Pa.

WANTED—To buy or lease. A young, practical florist, with $1,200 capital, would like to start in business within 25 miles of Boston. Address with particulars, C K, 116 Charles St., Boston, Mass.

WANTED—A first-class working foreman to take charge of 20,000 feet of glass, and grow roses, carnations and general stock. Applicants please forward references, and state wages expected. W. L. MORRIS, Des Moines, Iowa.

WANTED—A young man, German preferred, who understands general greenhouse work. Steady employment. State wages wanted including board and lodging. Address JOHN B. GOETZ, 235 S. Washington Ave., Saginaw, E. S., Mich.

WANTED—An orchid, palm, fern and stove plant grower; one who is sober, well up in the business, and will attend to his own department, and not in any way interfere with men in other departments. I want a reliable man—none other need apply. R. J. MENDENHALL, Minneapolis, Minn.

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When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Catalogues Received.

J. A. Simmers, Toronto, Ont., seeds and plants; John R. & A. Murdoch, Pittsburg, Pa., seeds, plants and nursery stock; J. Palmer Gordon, Ashland, Va., plants; James Waters, Watsonville, Cal., berry plants; B. F. Smith, Lawrence, Kans., small fruits; P. J. Berckmans, Augusta, Ga., nursery stock; same, plants; Hoopes Bros. & Thomas, West Chester, Pa., nursery stock; Wood Bros., Fishkill, N. Y., plants and rooted cuttings; C. L. Brunson & Co., Paducah, Ky., plants and cut flowers; Frank Banning, Kinsman, O., plants and seeds; H. Cannell & Sons, Swanley, Eng., plants; Shady Hill Nurseries, Cambridge, Mass., nursery stock; J. J. Bell, Flowers, N. Y., seeds. J. T. Lovett Co., Little Silver, N. J., nursery stock; E. H. Krelage & Son, Haarlem, Holland, bulbs; Chas. Black, Hightstown, N. J., small fruits; Wood Bros., Fishkill, N. Y., plants and rooted cuttings; Byron H. Ives, Albuquerque, N. M., plants and seeds; C. Petrick, Ghent, Belgium, plants; E. Y. Teas, Irvington, Ind., nursery stock; F. W. Kelsey, New York, trees and plants; Johnson & Stokes, Philadelphia, seeds; Fred. P. Burr & Co., Middletown, Conn., seeds; Wm. H. Moon Co., Morrisville, Pa., nursery stock; Van Zanten Bros., Hillegom, Holland, bulbs; G. C. Watson, Philadelphia, specialties in bulbs and grass seeds; D. Hill, Dundee, Ill., nursery stock; G. Herrmann, 413 Ost 34th Strasse, New York, Haupt-Verzeichniss von samen u. Blumenzwiebeln.

Foreign Notes.

The number of visitors at Kew Gardens in 1893 was 1,733,386, an increase of 379,229 over the number recorded for 1892. The highest week day attendance was on May 22nd, when the number was 100,737. On June 18th was the highest Sunday record, 29,891.

The bulletin of the Royal Horticultural Society of Tuscany for January, 1894, contains a colored illustration of a new hybrid canna which, if the picture truly represents it, is likely to throw all the now popular varieties into the background. This novelty is named Italia. The blooms are represented as full eight inches across, color brilliant yellow, the petals broadly splashed with scarlet.

A writer in the *Journal of Horticulture*, who claims to have fully tested the varieties in question, ventures the opinion that Sweet Pea Emily Henderson "is nothing more nor less than a carefully selected stock of Queen of England."

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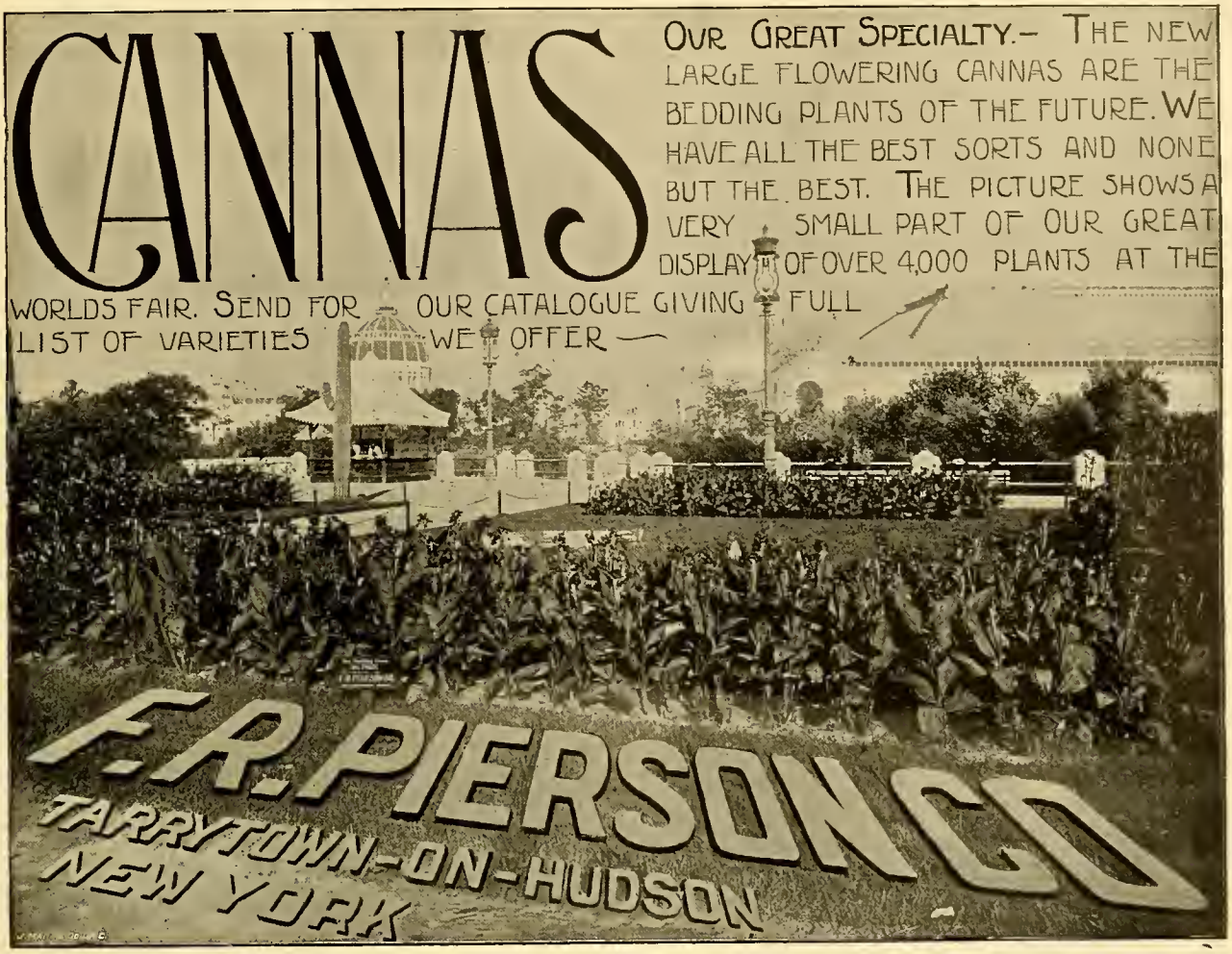
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" La France, Bridesmaid	3.00@ 6.00
" Beauty	5.00@40.00
" Hybrids	5.00@25.00
" Jacq	3.00@10.00
Carnations	.75@ 2.00
Mignonette	2.00@ 8.00
Violets	.35@ .75
Hyacinths, Valley	1.00@ 2.00
Daffodils, Tulips	2.00@ 3.00
Harrisii	3.00@ 6 00
Smilax	6.00@12.00
Adiantum	1.00
Lilacs, per bunch	.50@$1.00

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Roses, Niphetos	3 00
" Gontier	4.00
" Perle, Sunset	5.00@ 6.00
" Bride, Mermet	6.00@16.00
" American Beauty	6.00@40.00
Carnations	2.00@ 3.00
" fancy	3.00@ 4.00
Lily of the valley	1.00@ 3 00
Roman Hyacinths, Freesia	1.00@ 1.50
Trumpet narcissus, Daffodils	2.00@ 4.00
Callas, Harrisii	6.00@10.00
Mignonette	2.00@ 8.00
Violets	.65@ 1.00
Pansies, Myosotis	1.00
Tulips	2.00@ 4.00
Adiantum	1.00
Smilax	12.50
Asparagus	50.00
Erica, per bunch	50c
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Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watteville, Hoste	3.00@ 4.00
" Bride, Mermet, La France	4.00@ 6.00
" Kaiserin, Bridesmaid, Testout	6.00@ 8.00
" Belle, Beauty	10.00@20.00
" Laings	20.00@25.00
" Brunner	25.00@35.00
" Jacqs	12.50
Carnations, H. Keller	6.00
" Ophelia, Sweetbrier, Daybreak	2.00
" Edna Craig	2.00@ 3.00
" good assorted	1 00@ 1.50
" good per 1000	7.50@10.00
Valley	2.00@ 3.00
Romans, Paper white	2.00@ 3.00
Daffodils	3.00@ 4.00
Smilax	12.00@15.00
Adiantum	1.00@ 1.50
Violets	.50@ 1.00
Mignonette	1.50@ 2.00
Asparagus	50.00@75.00
Harrisii lilies	8.00@10.00
Callas	6.00@ 8.00
Freesia	1.00@ 1.50
Tulips	4.00@ 5.00
Cattleyas	40.00
Orchids	15.00@40.40

	CHICAGO, Mar. 13.
Roses, Perle, Niphetos, Gontier	3.00
" Bride, Mermet, La France	3.00@ 4.00
" Wootton, Meteor, Bridesmaid	3.00@ 4.00
" Beauty	5.00@25.00
" Mixed	3.00
" Jacqs	8.00@15.00
" Hybrids	15.00@35.00
Carnations, long	.75@ 1.00
" fancy	1.50@ 2.00
Valley, Romans, narcissus	2.00@ 3.00
Tulips, Daffodils	3.00@ 4.00
Dutch hyacinths	4 00
Violets	.50@ 1.00
Callas, Harrisii	4.00@ 6.00
Mignonette	1.50@ 2 50
Smilax	8.00@15.00
Asparagus	50.00
Orchids	15.00@50.00

	CINCINNATI, Mar. 10.
Roses, Beauty	10.00@35 00
" Mermet, Bride	4.00@ 6 00
" Testout	8.00
" Perle	3.00@ 4 00
Carnations	1.00@ 3.00
Tulips	3.00@ 4.00
Narcissus	3.00
Daffodils	2.00@ 3.00
Valley	3 00
Romans	2 00
Violets	.75@ 1.00
Callas, Harrisii	8.00
Pansies	.75@ 1.00
Smilax	10.00@15.00
Adiantum	1.00

	ST. LOUIS, Mar. 10.
Roses, Perles, Niphetos, Wootton	3.00@ 4.00
" Bride, Mermet, Bridesmaid, Meteors	4.00@ 6.00
" Watteville, Hoste, Cusin	3.00@ 5.00
" La France, Albany	3.00@ 4.00
" Beauty	5 00@35.00
Carnations, long	1.00@ 2.00
" fancy	1.50@ 2.50
" short	1.00
Valley	3 00@ 4 00
Romans, Narcissus	2.00@ 3.00
Tulips	2.00@ 3.00
Daffodils	1.00@ 4.00
Violets	.25@ 1.50
Harrisii, Callas	3.00@ 8.00
Mignonette	1.50@ 2.00
Smilax	15.00
Adiantum	1.25
Galax leaves	2.00

	BUFFALO, Mar. 9.
Roses, Beauties	10.00@18.00
" Mermet, Bride,	5.00@ 7.00
" Meteor	6.00@10.00
" Gontier, Perle, Niphetos, Hoste	4.00@ 5.00
" Cusin, Watteville	4.00@ 6.00
Carnations, long	1.00@ 1.50
" short	.75
Tulips, Daffodils	3.00@ 4.00
Hyacinths, Narcissus	2.00@ 3.00
Valley	3.00@ 4.00
Violets	.75@ 1.00
Pansies, Forget-me-not	1.00

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ROSES, standard varieties and novelties
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LARGE SHIPPING TRADE. CAREFUL PACKING.

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BRANCH: Cut Flower Exchange, 408 E. 34th Street.

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34 W. 29th Street, NEW YORK,
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Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, at Toronto, Ont.

THE very mild and spring-like weather of the past ten days has changed the situation materially in the mail trade and most houses are now doing well, with business nearly up to last year; though all feel doubtful if the losses made in February will ever be made up.

St. Paul, Minn.

Trade is slowly improving and we trust will continue to. St. Paul florists have had a very dull winter indeed, and unless trade picks up from now on and the Easter sales are good, many of them will balance their books at the end of the season with a heavy *loss* account.

The bright spring like weather of the past two weeks has brought everything forward in good shape. Lilies that were way behind have caught up with the procession, so to speak, and will be in full bloom for Easter. Others that were quite forward are already falling to pieces and will not last long. On the whole, however, there is an abundance of flowering stock for the Easter trade, and with only *fair* prices florists ought to reap a rich harvest. L. L. May & Co. have an extra nice lot of lilies as well as a general line of plants and a good supply of cut flowers. Aug. Swanson has a fine lot of hybrid roses which will be in all their glory soon. E. F. Lemke has some nice azaleas and lilies and will have a fine lot of teas, which are just now coming into crop. Chris Hansen and Alderman Warren have a general line of desirables, while the others have a fair stock of plants and roses.

We presume that St. Paul will have the finest Easter floral displays it has ever seen. We understand that two of the leading florists are to combine their stocks for the occasion and display them in a large store centrally located. The location of the store is not known to the writer, and perhaps the whole thing is surmise.

The State Association met in this city on Thursday evening, the 8th. Sec'y Swanson opened the meeting and Pres. Malmquist of Minneapolis presided. This was the first meeting that has been held in two years and was well attended and much keen discussion indulged in, we trust to the benefit of all.

A. S. Swanson read a very able paper on the advantages of a florists' society, full of pertinent suggestions and emphasizing the time honored theory that "in unity there is strength." This paper brought out quite a discussion, indulged in by Messrs. Wessling, Nagel and Hartman of Minneapolis and Messrs. Hansen, May and Currie of St. Paul.

The question box brought forth the fact that Daybreak, Silver Spray, Portia and Garfield were the most profitable carnations for our florists. E. Nagel thought Grace Wilder a better one than Daybreak; at least that had been his experience. Daybreak and Silver Spray were, however, considered the favorites by the majority of those present.

Mermet, Bride and Perles were considered the best three roses grown by our florists, that is, the most profitable for St. Paul and Minneapolis trade. L. L. May eulogized the merits of the Bridesmaid, claiming it to be the best pink rose grown today.

The best cure or preventive for fungus on the cutting bench is lime and hot water applied to the benches before putting in the sand.

Another question—Is the Testout as profitable as La France? The opinion of those present was divided, some claiming that the La France produced more blooms, the others saying that the Testout more than offset this by the quality, all flowers being perfect.

The next question provoked no little discussion, viz., What can be done to stop department stores from selling plants and flowers? This is the old battle ground which has been thoroughly discussed before in these columns. As a remedy a florists' exchange was proposed, but the question of expenses incurred in establishing and maintaining such an establishment had evidently not been considered by the proposers, and the drawbacks and fallacies of such an undertaking were ably set forth by L. L. May.

After adjournment the club retired to the other room, where refreshments were served and a merry time in general participated in. A general good feeling seemed to pervade the minds of all, and we sincerely hope that the *St. Paul Florists' Club* may be a thing of the near future. As intimated in Mr. Swanson's paper, such an organization could only be beneficial and would tend to bring all florists here together in harmonious action. We hope to see such a society established at once and steps taken immediately for holding a "mum" show the coming fall. Until such an organization is effected the Twin Cities will be regarded as merely a *way station* in the florist business.

FELIX.

HIAWATHA, KANS.—The florist business conducted under the firm name of Margrave & Ward and later changed to S. G. B. Ward, will hereafter be conducted by J. W. Margrave & Co.

GRAND RAPIDS, MICH.—Mr. J. W. Rawlinson has surrendered his contract for the Henry Smith greenhouses, and Mrs. Sarah Smith has taken possession and will continue the business at 130 Monroe St.

MILWAUKEE, WIS.—After March 1 the store business of C. B. Whitnall & Co. will be incorporated as the Whitnall Floral Co. The greenhouses on Humboldt Ave. will be conducted by C. B. Whitnall alone and a specialty will be foliage for florists' use.

IF YOU have not already done so send your adv. by first mail for our special spring number to be issued next week.

The sower has no second chance. If you would at first succeed, be sure and start with
FERRY'S SEEDS.
Ferry's Seed Annual for 1894 contains the sum and substance of the latest farming knowledge. Every planter should have it. Sent free.
D. M. Ferry & Co., Detroit, Mich.

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PEARL TUBEROSES
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We offer selected bulbs of above, from four to six inches in circumference, for present shipment, at $9.00 per 1000. Orders accepted subject to being unsold.

SWEET PEAS, California grown.
We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

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TUBEROSES. . .
DOUBLE EXCELSIOR PEARL.
Selected large bulbs, 4 to 6 inches in circumference,
IN ANY QUANTITY.
Orders booked now for present (weather permitting) or future delivery.
Per 1000 $8.; in 5,000 lots, $7.50 per 1000; in 10,000 lots, $7. per 1000.
PITCHER & MANDA,
United States Nurseries,
. . . SHORT HILLS, N. J.



New Catalogue (No. 4) containing over 1,000 ORNAMENTAL CUTS for Florists' use, such as envelopes, letter heads, billheads, cards, advers., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25c. (deducted from $1 order).
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Philadelphia, Pa.

Hulsebosch Brothers,
OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LILIUM SPECIOSUM ALBUM	$ 6.00	
" " ROSEUM	5.00	"
" " RUBRUM	5.00	"
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors.	4.00	35.00
CONVALARIA MAJALIS, German pips.	1.00	8.00
TUBEROSES, Pearl and Tall, A1 (big) bulbs.	.90	7.50
LOW BUDDED ROSES, in sorts, Dutch Stock.	9.00	
English Stock.	11.00	

All other plants or shrubs can be ordered for March, '94 delivery.
HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.

You buy your Bulbs from

SEGERS BROTHERS?

Yes! Isn't that right?

Why certainly it is! You will always get the CHEAPEST and the BEST, and that is what you want.

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Our Specialties for this Season will be

HYACINTHS, All Leading Varieties.

Small, pure white Hyacinths, to succeed the Romans.
Scarlet van Thol Tulips, La Reine, Chrysolora and other market vars.
Double Van Sion Daffodils in any quantity.
Narcissus Bicolor Horsfieldii, Sir Watkin, Poeticus ornatus, Albus plenus odoratus.
Spiræa compacta multiflora and Spiræa astilboides, two new sorts now much in demand in Europe.
Lilies and other bulbs and bulbous roots for forcing, etc.

Send list of what you need to

SEGERS & CO.
BULB GROWERS,
LISSE, near Haarlem, Holland, Europe.

Registered cable address SEGERSCO, Lisse, Holland.

ESTABLISHED 1874.

One customer writes: "The bulbs received of you last fall were very satisfactory." And another wrote last October: "The bulbs you forwarded us have opened up very satisfactory indeed, being fine, large bulbs, and in good condition."

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The Best for Cut Flowers.
PINK WHITE. PER OZ. $1.50.

PRICE LIST FREE ON APPLICATION.

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50,000 CALLAS. 500,000 FREESIAS.
Best stock. Lowest prices.
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FRED. ROEMER, SEED GROWER,
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Our Tulips, Hyacinths, Narcissus, Etc., are the Best and Cheapest.

Mr. Van Zanten will come personally to make a trip through the U. S. to contract with buyers. He will offer a large stock of finest quality goods.

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Summer Delivery
(JULY AND AUGUST.)
PALM SEEDS (from California and Australia).
TREE FERN STEMS.
FREESIAS. We will have a million of FREESIAS running from 7-16 to ¾ of an inch.
CALLAS. Dry roots in all sizes.
LIL. LONGIFLORUM.
CALIFORNIA SMALL BULBS.
Brodiæas. Calochortus, Fritillarias.
Advance Price List ready. Send for it. We want your orders now. Address
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Send List of What You Need.
WE CAN SAVE YOU MONEY.

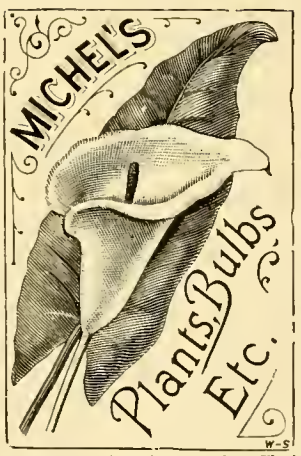


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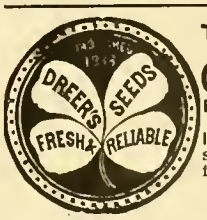
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Extra selected quality, in cases of 3000 pips.
Now in COLD STORAGE WAREHOUSE. Also for importation on orders. SEEDS, Dried Flowers, Grasses, etc., and Spring Bulbs.
SOLE AGENTS
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EXTRA STRONG, WELL ROOTED
MARIE LOUISE VIOLETS,
Now Ready. $5.00 per 1000; 90c. per 100.
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MICHEL PLANT AND BULB CO.,
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SEEDS!
PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
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114 CHAMBERS ST., NEW YORK CITY.



TRY DREER'S
GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

LAST CALL....
FOR ADVS. FOR OUR
SPECIAL SPRING NUMBER
TO BE ISSUED NEXT WEEK.
Mail at once or you will be too late.
AMERICAN FLORIST CO.

St. Louis.

At the last regular meeting of the Florists' Club the committee appointed to examine into and report upon the advisability of holding a show made their report, and advised the giving of the show, provided suitable terms could be secured from the managers of the hall. They also recommended that a committee of five members be elected by the club to take charge of all preliminary and final arrangements of the show, and to have full power to act. That a guarantee fund of $600 or more be raised from the members of the club, towards meeting any deficiencies that may arise in the show funds. Also that music be provided for the evenings at an expenditure of about $250, and that the price of admission remain the same as last year, that is, 50 cents in the evening and 25 cents during the day. The report was received and adopted, and a committee, consisting of Messrs. Michel, Tesson, Waldbart, Fillmore and Schray, were elected to assume the responsibilities of the show, and are now actively at work getting matters in shape so as to be able to rush things.

A communication from Messrs. F. Dorner & Son was read, acknowledging the receipt of the Shaw medal. A letter was also read from the parties having in charge the awarding of medals at the World's Fair, requesting the engraving wanted on the medal won by Missouri's plants. After some discussion the words "To the Florists of St. Louis," were decided upon. In all probability the medal will be turned over to the Missouri Botanical Gardens for preservation and exhibition, as soon as received by the Club.

At the last business meeting of the Bowling Club, it was decided to provide some lunch and refreshments at the bowling meetings and the members were assessed to pay for same. The teams for the coming series remain the same as for the last one. The elegant leather medal provided by the club for the lowest average was awarded to John Kunz, who is forced to wear it at all bowling meetings under penalty of a fine of 25 cents. A prize was also offered by the manager of the alleys, consisting of a "pitcher and goblet" to be competed for by the club members under the following conditions: The two highest men in each team after the series is over to roll five games; the three highest of these six to roll five more games and the winner takes the trophy.

The first part of the week was cold and windy, and was hard on market plants; the last two days were fine and evened up matters somewhat. The market is no better than last week, good trade however is expected during Easter week, after which, owing to its coming so early a dull spell is expected until regular planting commences. Cut flowers are more plentiful and promise to be so through Easter.

R. F. T.

AMATEUR FRUIT GROWING is the title of a volume recently sent out by Samuel B. Green, professor of horticulture in the University of Minnesota. It is written with special reference to the climate of the northwestern states, and is freely illustrated. (Farm, Stock and Home Publishing Co., Minneapolis).

MARYVILLE, Mo.—M. E. Mergen has purchased several lots in the business part of the city, paying $15,000 for same, upon which he intends to build three greenhouses of the latest style of construction, to be heated by a Hitchings hot water boiler.

The Jacqueminot Carnation . .

IS A PERFECT SUBSTITUTE FOR THE JACQUEMINOT ROSE.

Many buy it in preference because of its lasting qualities, and you can have it in bloom when the rose is out of season. Send for descriptive circular, enclose 10c. and we will mail you long stem sample blooms. The color is a bright crimson (no black in it). If the blooms look dull on arrival, they have been chilled or frozen. Notify us, we will ship again.

Rooted Cutting ready now:

PER DOZEN, $2; PER 100, $10; PER 1000, $80. 250 AT 1000 RATE.

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Rooted Cuttings. **CARNATIONS.** Rooted Cuttings.

ALL THE BEST VARIETIES IN CULTIVATION.

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NO DISEASE! NO RUST!

Catalogues ready January 1st, '94. Correspondence solicited.

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BOUTON D'OR,

The best Yellow CARNATION. Ready April 15th.
Price, $2.00 per dozen; $10.00 per hundred.

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Our stock is large and handsome, consisting of 70 to 75 varieties, including the very newest kinds.

ROOTED CUTTINGS, in 30 to 40 varieties, (our selection), at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.

NEW KINDS, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.

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FOR 1894.

UNCLE JOHN, white; THE STUART, scarlet;
E. A. WOOD, pink variegated;
GOLDFINCH, yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from Headquarters. We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Eliz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.

Send for price list.

F. DORNER & SON, La Fayette, Ind.

MONEY-GETTERS ALL!

THESE NINE

CARNATIONS

FROM SOIL.

Free from Disease and First-Class in every way.

- Uncle John
- The Stuart
- Wm. Scott
- Edna Craig
- Albertini
- Daybreak
- Cartledge
- McGowan
- Portia

Note, before you order elsewhere, that we offer the above and twenty other good varieties of Carnations, well established in soil, ready for planting out or potting up—delivery in April—at the price of cuttings from sand, and guarantee satisfaction. Send for list.

ALEX. McBRIDE,

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Mention American Florist.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. H. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE.

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000.

Send for price list.

EDW. SWAYNE,

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Carnation Cuttings.

Free from rust and disease. Send for price list.

J. T. DE WITT, Bristol, Pa.

CARNATIONS

Rooted Cuttings of the following varieties now ready. Entirely free from rust. I have never had rust on the place.

	Per 100
PORTIA	$1 00
LIZZIE McGOWAN	1 00
PURITAN	1 25
NELLIE LEWIS	1 50
FRED. DORNER	1 50
AURORA	1 50

100,000 Rooted Cuttings Carnations ready. If wanted by mail, add 10c. per 100 for postage.

COLEUS.

A large stock of strong rooted cuttings ready. Price 50 cts. per 100; many nice varieties. If Coleus are wanted by mail, add 10c. per 100 for postage. 50,000 ready.

ALTERNANTHERA Aurea nana, 50 cts. per 100.
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Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

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Rooted Cuttings Ready Now.

Silver Spray	Wm. Scott	E. Pierson
Lizzie McGowan	Daybreak	Portia
Blanche	Edna Craig	Wabash
Golden Gate	Annie Pixley	F. Mangold
J. J. Harrison	M Albertini	Tidal Wave
T. Cartledge	Nancy Hanks	Dr. Smart

These and other standard sorts $12 per 1000 and upwards

Varieties of 1894 Ready April 1st.

The Stuart (scarlet) was awarded the gold medal at Indianapolis. Uncle John (white) received certificate of merit at same place. Helen Keller, Goldfinch (yellow) and E. A. Wood.

SEND FOR COMPLETE PRICE LIST.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

CARNATIONS

MAMMOTH STRAIN **VERBENAS.**

Rooted Cuttings or Plants.

New French Cannas; Chrys. Geo. S. Conover; Geranium Silver Jewel; Anemone Whirlwind; Pink Her Majesty; Fuchsia Trailing Queen; and many other fine Novelties

Write for Illustrated Catalogue.

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CARNATIONS

ROOTED CUTTINGS NOW READY.

Wm. Scott, Edna Craig, Daybreak, Thos. Cartledge, Buttercup, McGowan, and many of the standard kinds. Orders filled for the New varieties,

Stuart, Uncle John, Helen Keller, Sweetbrier, Annie Pixley, Bouton d'Or.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

"NEW BEAUTIES"

Ada Byron

AND Nicholson.

SEND FOR OUR PRICE LIST OF

CARNATION ROOTED CUTTINGS.

Prices Greatly Reduced.
Largest Stock in the United States.

ESSEX HEIGHTS FLORAL CO.,
BELLEVILLE, N. J.

CARNATIONS.

Varieties good. Cuttings good. Lizzie McGowan, Silver Spray, Aurora, Grace Darling, Portia and J. R. Freeman, at $1.25 per 100; $10 per 1000. Fred Dorner, $2.00 per 100; $12.50 per 1000. Daybreak, at $2.50 per 100; $20.00 per 1000. Edna Craig, $3.00 per 100; $25.00 per 1000.

Annie Pixley and Helen Keller.

PIXLEY is one of those beautiful light pinks, with a fair sized flower and good, strong calyx. With ordinary culture stems can be cut twenty inches long. The flower is a model in form, and the growth is strong and healthy.

KELLER you know all about, they are both sure to make good paying varieties for cut flowers.

Pixley per 100, $12.00; per 1000, $100.00.
Keller per 100, $12.00; per 1000, $90.00.

Verbena Lancaster Beauty.

Decidedly the prettiest Verbena that grows, novel as well as beautiful and sells at sight.

Price, per 100, $2.00.

PANSIES.—I can still supply a few of those seedling plants at $5.00 per 1000, or 75 cts. per 100. The same good strain I always have.

No list published and terms are cash before shipping or C. O. D.

Coleus at $7 per 1000. Alternanthera, transplanted, Red, Yellow, Pink, $1.25 per 100; rooted cutting, $6 00 per 1000.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

"HELEN KELLER Is the Finest Variegated Carnation now on the Market."

So declared **THE JUDGES** at the meeting and exhibition of the

AMERICAN CARNATION SOCIETY AT INDIANAPOLIS, FEB. 20, 1894.

And so say all who have seen it **Growing** and **Blooming.**

The delicate tracing of scarlet on its pure white petals renders it very showy; yet does not mar its effectiveness when used on all joyous occasions.

A CERTIFICATE OF MERIT was awarded by the A. C. S. at **Indianapolis**, and
A CERTIFICATE OF MERIT was awarded at **Washington, D. C.** last November.

It is a free and continuous bloomer; in addition to the large size of the flower and its perfect form. **Price for Strong Well Rooted Cuttings, $3.00 per Dozen; $12.00 per 100; 250 for $25.00; $90.00 per 1000.** 500 at 1,000 rate. *Orders may be sent either to*

EDWIN LONSDALE, *CHESTNUT HILL, PHILA.* or **JOHN N. MAY,** *SUMMIT, N. J.*

NO DISEASE MEANS LARGE CROPS AND GOOD PRICES.

Buyers of rooted cuttings of CARNATIONS are fast learning the superior merit of the stock grown and sent out by

• • • THE COTTAGE GARDENS,
QUEENS, L. I.

P. S.—Send for new 28 page Illustrated Catalogue just out.

Carnation Cuttings

NOW READY.

Daybreak and Puritan, $2 per 100; $15 per 1000.

Lizzie McGowan, J. J. Harrison, Nellie Lewis, Grace Wilder, American Flag, Golden Gate, $1.50 per 100; $12.50 per 1000.

Mrs. Fisher, Hiuze's White, Portia, Hector, Tidal Wave, $1.25 per 100; $10.00 per 1000.

Also Rooted Cuttings of **MARIE LOUISE VIOLETS**, $6.00 per 1000. A fine lot of Violet clumps full of cuttings, at $5.00 per 100. Ready to deliver April 1st and after.

ALL FIRST-CLASS STOCK.

C. B. HUMPHREY,
607 Chatham St., ROME, N. Y.

HEADQUARTERS

FOR

Bread and Butter Carnation Cuttings

	Per 100	Per 1000
PURITAN, LIZZIE McGOWAN, PORTIA, GRACE WILDER.	$1.00	$9.00

All other Good Kinds. Write for Prices.

S. J. REUTER, WESTERLY, R. I.

CARNATIONS.

Strong, healthy, well rooted cuttings now ready.

SAMUEL J. BUNTING,
Elmwood Ave. and 58th St., PHILADELPHIA, PA.

CARNATIONS.

Rooted Cuttings, Now Ready.

	Per 100	Per 1000
DAYBREAK	$2 50	$20 00
BUTTERCUP	4 00	35 00
PURITAN	2 00	15 00
SILVER SPRAY	1 50	10 00
LIZZIE McGOWAN	1 50	10 00
GRACE WILDER	1 50	10 00
PORTIA	1 50	12 00

Cash with order. 10c. per 100 extra when ordered shipped by mail.

Send for wholesale price list of Rooted Cuttings and Plants.

JAMES HORAN, Florist, Bridgeport, Conn.
Mention American Florist.

DAYBREAK, NANCY HANKS And CARTLEDGE.

NOW READY.

FINE, CLEAN, HEALTHY STOCK. SPECIAL PRICES to large buyers of these splendid Carnations.

Address **H. E. CHITTY,** Paterson, N. J.

Last Call

• • • FOR ADVS. FOR OUR

SPECIAL.....
SPRING NUMBER,

To be issued NEXT WEEK.....

Mail at once or you will be too late.

AMERICAN FLORIST CO.

Toronto.

The weather this last week has been simply beautiful but strange to say trade has been a little duller than usual. There is positively no accounting for the vagaries of trade these times; when one does not expect anything it improves and when one expects it to improve there is nothing doing.

A few Easter lilies are beginning to show in the stores already. There is likely to be a big stock of them in during the week before Easter though; nearly all the growers seem to have got them "on time" this year. "Daffs." are plentiful and the price way down. Roses are getting more plentiful but prices will probably stiffen until after Easter.

The advance list for the chrysanthemum show has been published and sent out. A post card addressed to A. H. Ewing, Normal School Gardens, Toronto, Ont., from any one wishing for a copy will be attended to at once.

Anguste Urbach, late foreman to Mr. C. Frost, is now doing business on his own account in Jas. Kennedy's old stand, 217 Brunswick Ave.

Frank Burfitt is working up a nice little business at the place on Wellesley St., lately occupied by Messrs. Plumb & Son. The business had been let down considerably, but as the store is situated in a good part of the city a good smart man should be able to work it up again. Frank is a hustler and is thoroughly conversant with all branches of the business. The right man is in the right place.

The chameleon craze has just struck Toronto. It is the finest of "ads." for the florist who has the vermin in his window on Yonge St. E.

HELENA, MONT.—Times have been dull here for the last six months but the banks are now open again and the outlook is brighter. Both cut flowers and plants are going at low prices. Carnations are selling for 35 cents a dozen and roses for $1.50 to $2.00 a dozen. Our Christmas trade was good, three large funerals helping to use up the chrysanthemums. There were more calls for cut flowers but individual orders were smaller than last year. Everything was sold. But at present the supply is greater than demand.

OUR great special spring number will be issued next week. Send adv. at once if you have not already done so.

Ipomœa Pandurata.

(HARDY DAY-BLOOMING MOON FLOWER)

Northern grown roots, at $2.50 per 100; $18 per 1000

ACHILLEA THE PEARL, field-grown, $1.00 per 100; $6.00 per 1000.

HARDY PHLOX, $4.00 per 100.

JAMES FROST, Greenville, Ohio.

PELARGONIUM "THE BRIDE."

For beauty, profusion of bloom, and dwarf, shapely habit of growth, the best Pelargonium in existence. Color, upper petals pink, lower white. Price, plants in bud or blossom, $6.00 per 100; by mail postpaid, 90c. per dozen.

FARFUGIUM GRANDE, fine plants, $5.00 per 100, by mail postpaid, $1.00 per dozen.

TILTON BROS.,

No. 222 Grove Street, AURORA, ILL.

Mention American Florist

WANTED.

5000 Violet plants in exchange for

Adiantum Capillus-Veneris, 2-inch, $5.00 per 100
Nephrolepis Exaltata, 3-inch, 7.00 per 100
" " 4-inch, 10.00 per 100

State varieties, in what condition, etc.

JOHN IRVINE GREENHOUSE CO.,

BAY CITY, MICH.

DON'T MISS THIS CHANCE.

We must have Room, and the only way to get it is to Move Out the Stuff.

BEST VALUE IN PALMS OFFERED ANYWHERE.

LATANIA BORBONICA in 2 3-4 inch pots, showing character leaves, ready to shift into 4 inch pots, very strong rooted. $8.00 per 100. Sample dozen for $1.25 by express. Packed light.

LATANIA BORBONICA, 4 inch pots with 4 to 6 good leaves, 20 to 24 inches high, very strong roots. As good as most 6 inch stuff. $25.00 per 100. Sample dozen for $3.50 by express.

LATANIA BORBONICA, 5 inch pots, with 5 to 7 good leaves, 24 to 30 inches high, good as most 7 inch plants. $50.00 per 100. Sample dozen for $6.50 by express.

This Stock is in Extra Good Condition.

Has had no Fertilizers to force growth, and is clean. Comes perfect.

SPECIAL PRICES ON 500 OR 1000 LOTS.

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500,000 ASPARAGUS ROOTS.

Conover's Colossal, One and Two Years Old.

The roots are very fine and in perfect condition.

Very low rates will be quoted on large lots.

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Hydrangeas for Easter.

NICE SIZED PLANTS; WELL COLORED; PRICE LOW.
COME AND SEE THEM.

HESSION, Clarkson St., Flatbush, L. I.

Easter Lilies.

BY THE THOUSAND.

Also a large stock of all other bulb flowers for the Easter trade can be secured at the Scottwood Greenhouse.

Orders will receive prompt and careful attention.

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Scottwood Ave. & Bancroft St., TOLEDO, O.

Victoria Regia, Egyptian Lotus. Pond Lilies, Aquatic Novelties.

SEEDS, DORMANT ROOTS AND TUBERS.

If you have not received my Wholesale List, a post card to that effect will fetch one by next mail. Address

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ROOTED CUTTINGS

Carnations, Chrysanthemums, Coleus, Verbenas, Etc. now ready.

Stock is the very best, and prices very low. If you want any rooted cuttings it will pay you to correspond with us. Send for price list.

EVENDEN BROS., Williamport, Pa.

READY FOR BUSINESS

Make known your wants and we will be pleased to quote prices.

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The Universal Horticultural Establishment,

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500,000 Strawberry Plants,

OF 20 GOOD VARIETIES.

No. 1 plants very low. 5,000 CONCORD, 2 years, at $10.00 per 1000. 5,000 No. 2 DOUBLE PEARL TUBEROSE, good flowering bulbs, at $3.00 per 1000; 2,000 for $5.00. With or without sets. Send for price list to

CHAS. BLACK, Hightstown, N. J.

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For advs. for our

SPECIAL · SPRING · NUMBER,

TO BE ISSUED

NEXT WEEK.

MAIL AT ONCE OR YOU WILL BE TOO LATE.

American Florist Co.

CLEMATIS.

ROOTED CUTTINGS.

	Per 100	Per 1000
Lilacina, purple	$3.50	$30.00
Jackmanni, purple	4.00	35.00
Velutina purpurea, purple	3 50	30.00
Cipsy Queen, blue	3.50	30.00
Viticella venosa, blue	3.50	30.00
Viticella rubra Kermesina, red.	3.50	
Lawsoniana, lavender	3.50	30.00
Ramona, lavender	3.50	30.00
Albert Victor, pink	3.50	
Henryi, white	3.50	30.00
Miss Bateman, white, fragrant.	3.50	30.00
Mrs. Howard Wyse, white	3.50	30.00
Mrs. Baker, white	3.50	30.00
Duchess of Edinburg, dbl. white	4.00	
Paniculata, white, small flowers	3.50	30.00

1000 Rooted Cuttings, our selection, (15 per cent. Jackmanni) $25.00.

N. B.—Orders can not be filled for these cuttings after March 20th.

W. S. LITTLE & CO.,
Commercial Nurseries. ROCHESTER, N. Y.

SMILAX.

CUT SMILAX—Half an acre ready to cut now. Quality A 1.

EASTER ORDERS BOOKED NOW.

SMILAX PLANTS—Extra strong 1 yr. old, $2.50 per 100; $20.00 per 1000.

TRANSPLANTED SEEDLINGS—$1.00 per 100; $8.00 per 1000.

SMILAX SEED—A few ounces left; crop of 1893, at 50c. per ounce.

JOS. E. BONSALL,
WHOLESALE FLORIST,
308 Garfield Avenue, SALEM, OHIO.

ROOTED CUTTINGS. Per 100

Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Coleus of sorts, mixed	.50
" best new and old, named	1.00
Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't.....$3.00 and	4.00
Abutilons, assorted	4.00
Echeveria glauca.....$2.00 and	3.00
Externa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted.....$2.00 and	3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Anthericum picturatum.....per dozen, 75c.	
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00
Silver-Leaf Geraniums, 3 varieties (no Mme. Salleroi)	4.00
Oxalis, Ortgiesi and Bowii	4.00
Dahlias, named, our selection	5.00
French Cannas, named, our selection, dry roots..	5.00
French Cannas, unnamed	3.00
" " potted	10.00
Fancy Leaf Caladium, fine mixed	6.00
" " " named	8.00

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Box 99. KANSAS CITY, MO.

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EARLY, NEW,

LIGHT YELLOW CHRYSANTHEMUM.

Received First-Class Certificate of Merit from Mass. Hort. Society, in Oct., '93.

Petals long, tubular and twisted, making a very graceful flower. Plants ready now at 60c. each; two for $1.00. Cash with order.

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MAY GLADIOLUS.

Just the thing for Florists.

White, lightly touched with pink; large spike and flowers; multiplies rapidly. $25.00 per 1000.

CUSHMAN'S STRAIN OF SEEDLINGS, $10.00 per 1000; mixed, $5.00 and $10.00 per 1000.

CUSHMAN GLADIOLUS CO., Euclid, O.

AZALEAS FOR EASTER.



WE HAVE HOUSES FULL, AS WILL BE SEEN BY THE ABOVE ILLUSTRATION, OF AZALEAS FOR EASTER FORCING.

The plants are in the best possible condition, finely set with buds, not too far advanced to ship safely at this time, which will insure a supply for Easter. We can make selections of plants taken from different temperatures to give a succession of bloom. We offer plants

9 to 10	inches in diameter at	$ 4.50	per dozen;	$35.00	per 100.
10 to 12	" "	6.00	"	45.00	"
12 to 15	" "	9.00	"	70.00	"
18 to 22	" "	30.00	"		

The varieties we handle are the best market kinds. The 12 to 15 inch size are of exceptional value. Send for copy of **Dreer's Wholesale Price List** for 1894, mailed free to Florists, Market Gardeners and Nurserymen who enclose business cards.

HENRY A. DREER, PHILADELPHIA.

New Chrysanthemum, MRS. J. GEO. ILS,

A CALIFORNIA SEEDLING.

Flowers sent from San Francisco to the Chicago Show awarded a MEDAL.

A grand white, of remarkable substance, size and depth of flower. See Illustration in AMERICAN FLORIST of November 16th. The very vigorous habit, and our large stock of this novelty, enables us to assure the trade of good plants, and to guarantee safe arrival. To be sent out the 1st of March, 1894, at the following prices to the trade:

75 cents each; $7.50 per 12 plants; $14 per 25 plants; $25 per 50 plants; $40 per 100.

ORDERS BOOKED NOW BY

JOHN H. SIEVERS, 25 Post St., SAN FRANCISCO, CAL.

ROOTED CUTTINGS.

Chrysanthemums AND Carnations.

Write for list and prices. Prices to suit the times.

Address **J. G. BURROW, Fishkill, N. Y.**

ONE HUNDRED AND ONE FINE CHRYSANTHEMUMS FOR $3.00.

All fine commercial varieties including one of the new early pink Mrs. E. G. Hill. Other stock in proportion. Write for what you want.

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FOR OUR
Special Spring Number
TO BE ISSUED *NEXT WEEK.*

☞ **Mail at once or you will be too late.**

AMERICAN FLORIST CO.

CHRYSANTHEMUMS.

A FINE STOCK OF

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$10.00 PER 100.

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CHRYSANTHEMUMS —AND— CARNATIONS.

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ED. AM. FLORIST: Will you kindly inform me how many runs of 4-inch pipe are necessary to heat a three-quarter span rose house 18x112 feet to 60° at night by hot water on the "uphill" system. I now have three runs under south bench, three under north bench, one under south center and one under north center bench, but one of our local hardware merchants insists that the house is not properly piped. A. M.
Conn.

In answer would say that eight lines of 4-inch external diameter pipe should be sufficient to maintain 55° to 60° temperature in zero weather in an eighteen foot wide three-quarter span house, providing the boiler is able to easily operate the amount of pipe in the house. The arrangement of the pipes as you have placed them is correct. Not knowing the amount of surface in your house we cannot answer your question positively. If you will measure the number of square feet exposed glass surface in the roof, sides, and gables and add one-tenth of the number of square feet of wall surface, if other than glass, and divide this amount by three it will give you the number of feet of pipe the house should contain. To find out the number of rows of pipe divide this amount by the length of the house in feet.
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Of Lord & Burnham Co.

JARDINIERES. ALL SIZES.



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Wheat Sheaves, Extra heavy, finest quality.
Cape Flowers, New Importation, large stock.
Immortelles, Artificial Flowers, Palm Leaves, Doves, all Easter Supplies.
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METAL DESIGNS, WREATHS and STANDARD FORMS IN GREAT VARIETY.
Special Designs Made to Order.
WHEAT SHEAVES, CAPE FLOWERS and ALL FLORISTS' SUPPLIES at low prices.
Descriptive Catalogue ready soon. Send your address and it will be forwarded soon as ready.

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Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

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Supplies of all Kinds, such as Immortelles, Cape Flowers, Wheat Sheaves, Flower Baskets, Pot Holders, Plant Stands, Fern Dishes, etc., etc.; all quoted in our beautifully and richly illustrated new Trade List mailed free. Address

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Send for Catalogue.

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Hamilton's Patent Sash Lifter.
The best thing of the kind ever invented for greenhouse use. Send for description and price list.
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Address all correspondence to 1 Music Hall Place.
Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.
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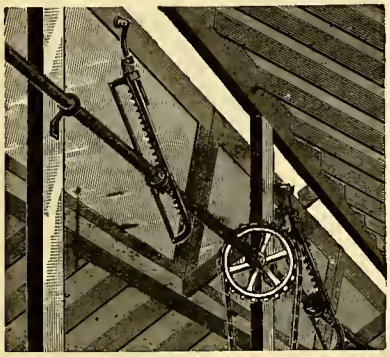
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Standard Flower Pots, Dried Grasses, Fancy Baskets Metal Designs. Trade Catalogue mailed free.



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Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

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Carolina, Lombardy and Golden Poplars,

Balm of Gilead, Imperial Cut Leaved Alder, Etc.

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The STORRS & HARRISON CO. Painesville, Lake Co. Ohio.

WORLD'S FAIR TALK

may seem a bit out of time, but the publisher of

LONG'S FLORISTS' PHOTOGRAPHS . .

takes pleasure in repeating to readers of the FLORIST the fact that L. F. P. was awarded a *World's Fair Medal and Diploma* in the Horticultural Department.

Send for Catalogue to

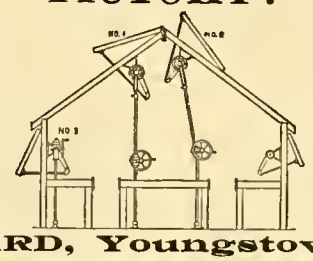
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POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

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THE MALTESE CROSS BRAND
THE VERY BEST OF GARDEN & LAWN

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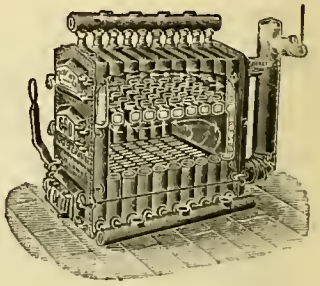


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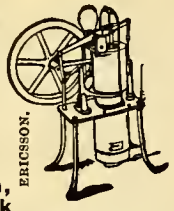
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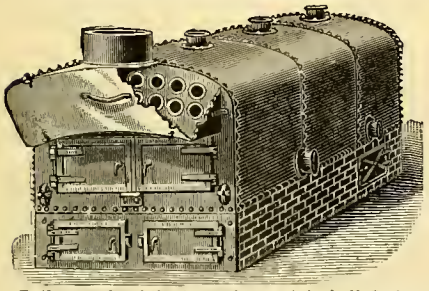


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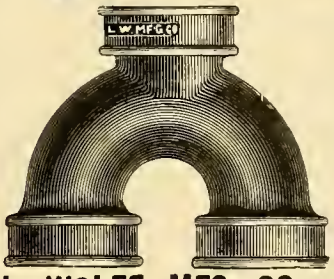
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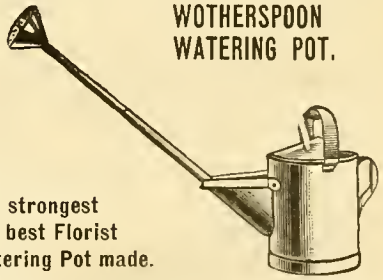
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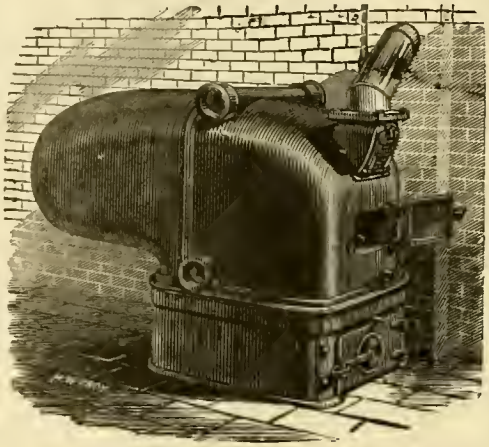
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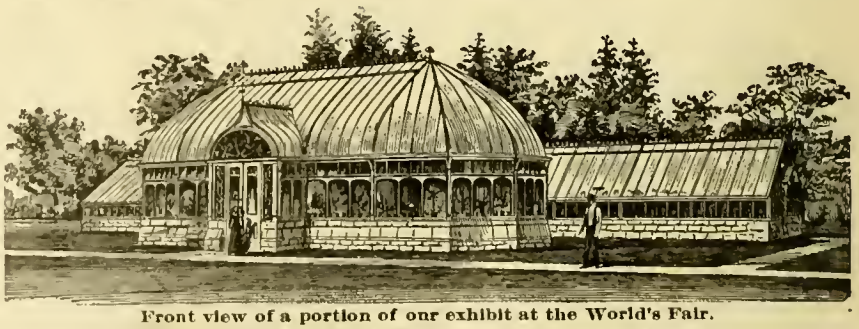
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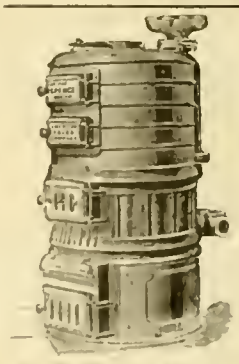


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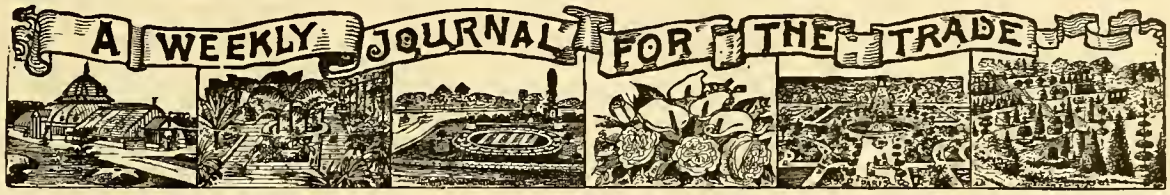
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Vol. IX. CHICAGO AND NEW YORK, MARCH 22, 1894. No. 303

THE AMERICAN FLORIST

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NASHVILLE, TENN.—G. W. Currey & Co. have added a large chrysanthemum house to their already large plant and from the looks of the young stock are preparing to take first money at the next chrysanthemum show. Mr. Currey is cutting some very fine roses; among others the Bridesmaid and Kaiserin were conspicuous. Mr. C. says Kaiserin is not as good a keeper with him as the Bride but there is a style about it he says, that can't be beaten. Joy & Son have just added two more fine houses to their range. The small one, 25x70, is for carnations, the other, 30x100, is for roses in solid beds. Mr. Joy is preparing to grow more carnations in future; says they have done much better this year than usual.

The Arrangement of Flowers.

Following we present the first of a series of comprehensive articles on the arrangement of flowers written under our general instructions by Mr. F. F. Benthey. We have purposely treated at considerable length upon the elementary details, in response to numerous requests from subscribers for such instruction. The experts, to whom these articles will be simply a description of their own methods and experience will therefore pass them by, but to a large number of our readers we know they will be very acceptable. We have endeavored to "begin at the beginning," covering the simplest details fully and plainly and to treat the subject from a thoroughly practical standpoint throughout. And while the articles here presented will propably be of interest mainly to those of limited experience, later on we shall touch upon matters in which all may find something of value.

PROPER CARE OF STOCK.

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Let us suppose we are located in a small city, but our trade is large enough to warrant us in keeping up a supply of cut flowers. Part of our supply we grow ourselves. Let us say we have a set of five houses of average size, one house in roses of different sorts, one of carnations in variety and one of miscellaneous stuff of such kinds as our trade demands; the other two will probably be in pot plants, which latter don't concern us just now.

Roses should receive our attention first, and it is of the utmost importance to cut the flowers at the proper time. We find it therefore necessary to go through our house several times a day. It requires some experience and good judgment to cut roses at the proper time. No rule can be laid down which would apply to all varieties.

The tea varieties, such as Bon Silene, Safrano and Gontier must be closely watched and cut just before the flower petals begin to loosen. Be careful not to cut too soon; although this variety will open when placed in water if cut in quite hard bud, the flowers will not develop into as large blooms, and generally will fade more or less. If the buds on the other hand are allowed to remain on the plants too long they will be worthless. When cut properly these buds may be kept for a week or more if the weather be cool.

The larger varieties, such as Mermets and Brides, should never be cut when in the bud state, but should remain on the plants until the petals begin to unfold. La France and Meteor are best cut when about half open.

Of course judgment must be exercised as to the season and also whether the flowers are intended for shipping or home consumption must be considered, but as we are not in the growing of flowers for the market, we will only consider the question from the standpoint of a dealer who caters to his own retail trade. However as such we must take into account the season of year, for in warm weather the flowers will open much quicker and better and the buds should therefore be cut a little sooner than in cold weather.

American Beauty and all of the hybrids should never be cut when in tight bud. In dark and cloudy weather the flowers may remain in bud for a number of days, but as soon as the sun strikes them will burst open very quickly, so we must watch them closely.

As soon as your stock is cut place in cold water. Never allow your flowers to get wilted after cutting. Wet the foliage before putting them away; it does not hurt the flowers if you should wet them also, but never sprinkle the flowers afterwards if you intend to keep them any length of time, as the water is apt to spot them.

Carnations will keep in good condition on the plants for some time, and need not be picked every day in order to keep them. But some of the colored sorts, particularly most of the pink varieties, are apt to fade if allowed to remain on the plants too long and it is best to gather them and keep set in water in a cool place.

Allow your carnation flowers to fully open on the plants before you cut them. Unlike the rose a carnation will not develop when picked unmatured; on the contrary it will shrivel and fade very soon, it will close again at night, will not keep as well.

If tulips and the rest of the varieties mentioned are grown in flats, these might be placed in a cool and dark place when in bloom, and cut when desired. The flowers will keep in this way for weeks.

Violets should never be picked until an hour or two before they are wanted. Put them in water before sending them out, as the flowers will last longer and give better satisfaction when received. The violet will lose its fragrance very soon after it is picked unless it be kept in a warm atmosphere and there it will soon wilt, so it is better to let your flowers fade on the plants if the demand should be below your supply, rather than to try to save them by keeping them in cold storage.

Lilies: Such varieties as Harrisii and candidum should be moved into a cool place as soon as the first flowers are open. If we can utilize short stemmed flowers in r design work it will be better to allow the buds to open on the plants; if not,

the first flowers will be gone before the last bud developes. If we desire to keep the flowers for some time it is best to cut the stock as soon as the first two flowers are open; the buds will readily open when placed in water, although the top buds on strong plants of say from 7 to 12 blooms to the plant, will seldom develop into salable blooms when thus cut. Lilies can be kept in salable condition without much trouble for two weeks or more. Callas also will keep much longer when cut before fully expanded, than when left on the plants.

Most people are laboring under the mistaken idea that cut flowers will last much longer when fresh cut and placed in a room. That such is not the case is a fact well known to the experienced florist. If flowers are gathered early in the morning or on a cool and cloudy day, and immediately carried home and placed in water and set in a cool room they will keep well enough, but when picked in the middle of the day and carried around for an hour or two, and then put in a warm room, it will be found that flowers picked the day before will last twice as long. Always pick your flowers early in the morning if possible, you will find they will keep better than those gathered at midday. Roses, as before mentioned, will have to be cut at different times, but avoid cutting when the sun is hot.

So far we have referred to flowers grown on the place, but if we wish to carry on our business successfully we will be obliged to buy more or less of our supply; these we draw probably from the nearest market. If carefully packed the flowers thus received, if the distance be not too great, and the stock is fresh when sent, will arrive in good condition, but it should receive your immediate attention; unpack the box at once, remove all bad and crushed petals when you take the flowers out, cut a little off the stems, if roses wet the foliage but not the flowers, place them in cold water and put them away in a cool dark place. If you wish to use the flowers at once of course you will have to take them in the shape they arrive, but if thus treated and only left for an hour or two before sent out, the stems will fill with water and stiffen the flowers and foliage and thus add materially to the keeping qualities of the flowers.

With carnations we must be careful not to wet the flowers, as these will shrivel up if put away in that shape, but cut the stems. The same will hold good with all bulbous stock. Keep stems in water but the tops dry. Chrysanthemums, when received in wilted condition, might be dipped, flowers and all, in water, but care should be taken to shake out the water from the blooms before they are set away.

Violets, if shipped from a distance of say 500 miles or more, will generally arrive though in sound condition yet without their fragrance. These flowers will often regain their sweet odor by putting the stems in warm water and keeping them in a warm room; to guard against wilting wrap the flowers in tissue paper.

If flowers are received in a frozen condition, dip in cold water and put them away at once in a cool place; avoid handling them as much as possible until the frost has been drawn out. A good deal of the stock can be saved even if frozen quite solid. When received in such a state better not unpack them but spray with cold water, cover with wet paper and keep them cool.

Flowers that have been frozen will not keep and must be worked up at once. Such varieties as roses, carnations, tulips and lilies will stand some frost without much apparent injury, while camellias, heliotrope and others will turn black almost immediately. Hyacinths, narcissus and valley will show a watery appearance in the flowers after the frost is drawn out. All such stock is only fit to work up in designs which are not required to keep above a few hours, such as funeral work. If no orders are at hand to work the stuff off at once better throw it away, as it is sure to work injury to your trade if sold for fresh cut flowers.

Now let us consider the best place to keep flowers. There is no question in our mind that a dark cool cellar is far preferable to an ice box. If your salesroom is connected with your greenhouses your first care should be to provide such a place for keeping your stock. Have it roomy enough for your needs and be sure to provide proper means for ventilation. Have the floor cemented and always keep it sweet and clean. Such a cellar will cost but little and will soon pay for itself. In the first place you will save the cost of ice the greater part of the season; besides flowers kept in such a place will keep in good condition better and last longer when taken out than those preserved in an ordinary ice box.

If we do our business in a store we are often obliged to resort to the refrigerator but if we do let us be careful to select one best suited for our purposes. There is a vast difference in the keeping qualities of refrigerators as regards flowers. The great majority of these boxes are totally unfit for our purpose. An ordinary refrigerator is built with the purpose in view of keeping the air as dry as possible. This is the box that is required for keeping meats, butter and eggs, but is not the kind we want. We need one that retains a certain amount of moisture. We can test such a box by placing a number of jars in it filled with water, which should evaporate the required moisture, then wet a piece of tissue paper and put in the box in the evening. If you find your paper dry in the morning your box is too dry for your purpose. Besides we must pay attention to temperature. We do not want it too cold, from 35° to 40° is better than 33° to 35°. If we select our refrigerator on those points we are pretty sure to get what we need. If you wish to give some attention to appearance have it as handsome a piece of furniture as you wish, but fight shy of a glass front. Your stock needs to be kept dark as well as cool.

Vases or jars for keeping flowers should be selected of such kinds and shapes best suited for our purpose. "Anything that holds water" doesn't answer. Let us consider this subject from the point of utility, that is shape, size and depth. So long as the inside is glazed it matters little if the material be the commonest clay. When we speak of shape we only lay stress upon the point that the vase should be somewhat flaring at the top. Flowers placed in such a vase will not crush together as in one straight up and down. The size will readily be determined by your requirements, but proper depth should never be overlooked. Such flowers as Harrisiis, callas, chrysanthemums and long stemmed Beauties and hybrids should never be placed in shallow vases. The three varieties first mentioned particularly will absorb a great amount of water in 24 hours. The vase or jar to hold these should be from 12 to 18 inches deep, according to length of stem; and be careful not to crowd too many flowers in one vase, for even if your vase be of proper depth you will often find that every drop of water has been absorbed in less time than you would think possible, and the stems will stand dry.

Now that we have put away our stock in proper shape don't for a minute suppose that it won't require further attention until sold. Establish a rule, and never deviate from it, to carefully look over your stock every morning, pick off all the bad petals from the flowers, snip off a little off the stems, empty and refill your vases with fresh water, and put them away again.

Mignonette and asters for instance can be kept a long time, but these flowers render the water offensive in a very short time. The vases these flowers are kept in also get slimy very quickly, so take good care and clean them thoroughly at least twice a week.

MOSSING DESIGNS AND BASKETS.

The "mossing up" is the first step in making up a design, and it is not such an unimportant matter as the new beginner is often led to believe. It is in fact of so very great importance that to have it done right a good "maker up" will often moss his own design if it be of a particular nature, rather than to trust it in the hands of a boy who is generally trained in to do this kind of work in large establishments. The sphagnum moss generally used for this work comes in bales or crates and is usually received in a dry state and is unfit for use in this condition. Open the bale, shake up the moss thoroughly, as you will find it lumpy, but don't break it up too fine. Pick out all the coarse roots you often find in it, and then wet it sufficiently to have it moist, but be careful not to pour too much water on it. It is worse to have your moss too wet than too dry. If too wet the sphagnum will pack too solid, and besides it adds an undue weight to your design. Always keep a supply of your moss properly prepared on hand ready for use; you will find it a great saving of valuable time when you are in a hurry.

Flat wire designs, such as crosses, wreaths, etc., will have to be "tin foiled" before the moss is put in. Get a grade commonly called "florists' foil" which is of the right weight. Cut the foil in pieces of proper length to fold around the frame, allowing about ¼ of an inch to fold over the edges. Then put in your sphagnum and press in firmly, but not too hard; if the moss is rammed in too tight you will find it difficult to insert your picks. Above all lay in your moss evenly; an inexperienced hand will generally get it high in one place and low in another, some spots so loose that a pick will not hold, and another place as hard as a brick; bear in mind that it is difficult to turn out a first-class piece of work with a poorly mossed frame. The moss should be slightly raised above the edge of your frame; you can turn out a better looking piece than when mossed flat, but don't go to the other extreme and moss too high. For tying designs of this class we prefer white spool cotton, say No. 10; this should be passed around your design sufficiently to keep the moss in place.

For upright wire designs it is best to line your piece inside with green sheet moss instead of tin foil. A well finished piece of work of this kind, although the back is not designed to be viewed, should be backed up with green, and if green moss be used in place of foil the appearance will be much better. This sheet moss should be procured in the fall, when a stock may be laid in to last for the win-

ter. If kept dry in a cold cellar or storage room it keeps green a long time. Spread out in quantity to your need from time to time and wet thoroughly and you will find it as fresh and green as when first gathered.

Baskets of open wicker work and like nature will also have to be lined inside with foil, but for large flats, pillows, and designs of that nature, we may use some grade of heavy paper. This answers the purpose of keeping the moss from sifting through equally as well as foil and is much cheaper. If paper be used for a pillow you will find it necessary to use foil in the corners of your designs, since it is difficult and takes too much time to make your paper fit into them.

It is difficult to state how high your baskets should be mossed. It depends on the shape and on the effect we desire to produce, but in every case the moss should be raised above the rim of the basket, if the effect is to be showy moss your design high. Baskets of irregular shape will often have to be mossed to follow the lines, in order to give the desired effect.

For tying in moss in baskets we prefer to use wire, No. 26 or 28 will answer the purpose very well; draw the wire through the rim of the basket, not around it. If string be used something heavier than spool cotton is required; a light grade of cotton twine such as is used generally for tying up small packages will do. Draw your twine through the rim of your basket or design; this is easily and quickly done by using a packing needle. You should always avoid passing the twine around the outside of your basket as this will give a slovenly appearance.

For designs of a special character no rule can be laid down; the nature of your design may be such that one part may be mossed high and another part quite low; you must be guided in such a case by keeping in mind the effect you wish to produce.

There are very few men who moss exactly alike, but on all essential points most will agree. We cannot expect that a new beginner, even if he follow the hints above given to the letter, will be able to "moss up" a piece correctly the first time; the main point is to start in the right direction and a little practice will do the rest.

STEMMING AND WIRING FLOWERS.

The stemming and wiring of flowers is, next to "making up," the most important matter in design work. It is essential that a new beginner should start in the right direction, from the first time he takes hold of wire and pick. If you start in wrong you will find it a difficult matter to break yourself of an acquired habit though experience may prove it to be a bad one. Many old-timers will recollect the age of broomstraw and spool cotton. Cut flowers in those days were mostly cut without stems and for bouquets. The flowers were tied onto the broom straw, cut in proper length, by means of cotton thread. For design work also broom straw was used to a large extent; toothpicks at 35 cents a box, obtained at the corner drugstore were considered too expensive a luxury. Even with those primitive means a good stemmer would become quite expert, and we can well recollect when wire came in general use how awkward we found it to handle the new material, and for quite a time we clung to the old style from sheer habit.

Let us first take up the stemming of carnations on picks. The picks used should be of good quality, as a poor article is a nuisance to handle. Use only hardwood picks as all other grades are liable to break and you will have to do the work over again. For wire use No. 36. Cut it in five equal lengths to the coil for general use. For first practice you may probably find it better to have your wire a trifle longer, as you are apt to pass it around the pick and flowers oftener in order to fasten securely, than is really necessary. In that case cut the wire in four lengths to the coil.

Now take up a bunch of wire and hold in your right hand between your third and little fingers, and hold the pick in your left, in the position shown in our illustration Fig. 8. Fasten a piece of wire

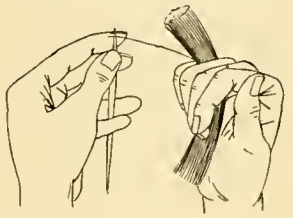


Fig. 8.

to the top of the pick by giving a twist overhand, draw the wire out of the bunch by a motion of the right hand, at the same time pick up the flower with your right and place it against the pick and give another overhand wrap around flower and pick, Fig. 9. Be careful you

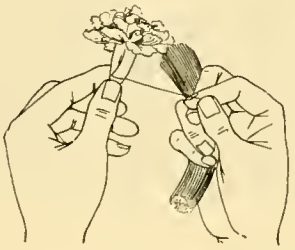


Fig. 9.

place the flower in such position that the first two turns of the wire will pass around the calyx of the flowers, draw the wire around firmly but not too tight, as the wire will otherwise cut through the calyx; now give a rapid twirl to the pick between your thumb and index finger, Fig. 10, until the end of the wire passes

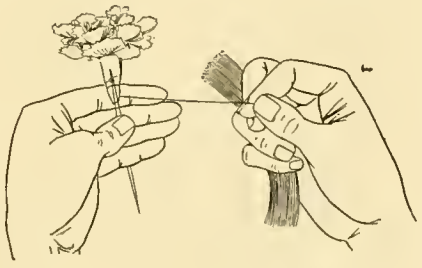


Fig. 10.

around the pick when it leaves the hand as shown in Fig. 11.

An experienced stemmer may safely omit the first movement, that of fastening the wire to the pick first, but if the novice should do so he will find his flowers slip off the pick nine times out of ten. On the whole we think it the best plan anyway as it will give the best satisfaction and the first is as quickly done as the other.

In a general way carnations are stemmed on whole picks, and if to be used for small flat design, the pick is shortened with a sharp knife to the desired length, although some florists prefer to cut their picks to the desired length before stemming. Care should be taken to wrap all the wire around the stem and not leave



Fig. 11.

an inch or so sticking out, as this interferes with your work. And don't run it too far down to the point if you have to shorten your pick by cutting.

There are other modes of stemming carnations which are often practiced when in a great rush, and by some habitually.

The first, as shown in Fig. 5, is done by using wire of say No. 24. The wire, cut in proper lengths, is simply run through the calyx of the flower and bent down; it is done more rapidly than wiring the flower to the pick and on this point has its advantages, but is not as satisfactory on the whole. The same might be said of the practice of simply sticking the pick into the lower part of the calyx by breaking the flowers off short, as shown in Fig. 7. Only flowers with perfect calyces can be stemmed this way; if the calyx be split, as we too often find it, it can't be done satisfactorily, besides the flower will easily slip off the pick if shoved closely into the moss, as it should be. Fig. 6 shows a flower stemmed in the way recommended.

Although we advocate the use of as little wire as possible for the artificial support of flowers we find nevertheless that we cannot altogether do without it. But if we have to resort to its use let us do it neatly and make it as little noticeable as possible. The lines showing the wire in our illustrations are heavier than the relation to the size of stem would warrant. This was done in order to show up the process plainly.

We should never use a supporting wire to a rose if the stem is strong enough to support the flower in an upright position, but if weak we must resort to the use of wire. Use a No. 26 or No. 24 wire, cut in any length desired, insert one end of the wire into the calyx of the flower and then twist around the stem as shown in Fig. 1 and Fig. 3. As we wish to preserve the natural appearance of the flower, care should be taken to pass the wire between the foliage on the stems and not twist it out of shape. Avoid the practice, often noticed, of stripping off every leaf from the stem and then wiring them in a bunch close up to the flower.

Fig. 3 shows a half long rose stemmed for a bouquet with the supporting wire. If such a flower is wanted for a large bouquet you may have to run a double wire somewhat lower than shown, and at the lower part of the stem you may also wire in any loose leaves you have on hand.

Fig. 2 shows a rose strong enough in stem, but too short for the purpose intended, and the wire, which should be No. 24, serves the purpose of lengthening the stem.

Fig. 1 shows a half long rose wired for a basket. For this kind of work we prefer the matchstick to the ordinary pick, in fact in large pieces where long stemmed flowers are used it is indispensable as the pick is neither strong enough nor long enough to support the flower. These matchsticks come generally in lengths of two feet, and can be cut in any length desired. Get your stock from some responsible dealer in supplies, as there is any quantity of poor and brittle stuff in the market that is worse than useless. There is nothing so trying to one's patience, not to mention loss of time when you are in a hurry, as to find that every other flower you pick up is stemmed on a brittle stick that will snap in two when you try to insert it into the moss.

In Fig. 4 will be seen a weak stemmed rose wired for what is generally termed festooning, that is the flower to be raised more or less above the level of the body of your design. The wiring of roses through the flower is not practiced as much now as formerly; the flower-buying public strongly objects to it and with very good reason. We do not hesitate to condemn this practice as a fraud if the flowers be sold loose and as fresh stock, but for some purposes it is allowable and has even its good points. For instance let us suppose you have a lot of gentlemen's boutonnieres to make and at the same time have on hand a supply of Bons or Gontiers, which threaten to open shortly and probably go to waste. These roses, neatly wired, will answer your purpose very well, and furthermore the wire will keep your rose in the bud shape and besides it will not break off and be lost to the wearer, as is often the case when the bud is not wired. Use a No. 36 wire for this purpose. Close the fingers of your left hand around the top of the bud to keep the petals in position and run two wires through the flower from two sides, as shown in Fig. 12, bend the four ends of the wire down and twist around the stem; see Fig. 13.

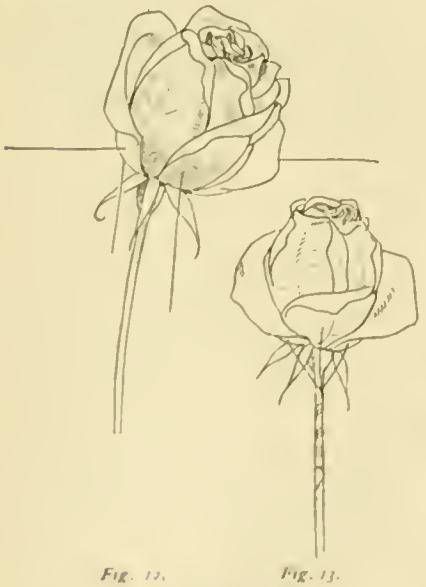


Fig. 12. Fig. 13.

WIRING ROSES

Roses that are wired in this way should not be kept long. When wet the wire will soon rust and discolor the flower. Sometimes copper wire is used, which doesn't rust, but this wire is so soft and pliable, that a much heavier wire will have to be used and is therefore very objectionable.

Camellias are not used very much nowa-days, and those we get now are often cut with stems and therefore don't require wiring. For the wiring of shortstemmed flowers use No. 26 wire. Handle the same as roses and twist the four ends of the wire together closely. When used in a flat funeral design as most of these flowers are, insert the wires right into the moss, or else tie to a pick first.

Pansies when worked into a design will not always hold up their heads, in a desirable way, and we find it necessary to often wire a few flowers. Take a No. 36 wire and insert one end into the calyx and twist around the stem, then tie three or four flowers with a leaf or small branch to a pick, or if wanted for a bouquet to a No. 26 or No. 24 wire.

Besides the above mentioned there are many other varieties that require the use of wire, particularly when the stem is short and the flower is wanted for a bunch or design that requires additional length, but in all such cases we trust that the hints given above will be sufficient.



VARIOUS MODES OF STEMMING ROSES AND CARNATIONS.

ARRANGEMENT OF SIMPLE AND INEXPENSIVE FUNERAL DESIGNS.

Foliage and greens in their various forms are indispensable in design work. So great indeed is their importance that we should give this subject a most careful study. It is not our intention at present to enlarge upon this matter further than is necessary to illustrate the subject matter in hand but as we progress with the forms of arrangements we shall enter more fully into this subject as it may suggest itself in connection with the individual characteristics of either flower or design.

Our present aim is to describe and illustrate designs in their simplest forms suitable for funeral purposes. Let us start with a cross. Having followed our instruction and mossed the frame in proper shape we shall proceed to "make it up." The first step will be to arrange the green to form the background. This back ground, aside from adding to the effect of our design, also serves largely to enable us to economize in the use of flowers. Smilax and hardy ferns are the cheapest and best material for our purpose. Select a string of smilax, not too heavy if your piece be small, and fasten it around the edges of the cross by means of a No. 24 or 26 wire cut in suitable length and bent to form a staple. A supply of these should be ready at hand for instant use. Having arranged the smilax around the edge cover the sphagnum with hardy ferns as shown in illustration No. 1. If callas be used in the piece you will find it best to imbed the stem in the moss as the flowers will flag very quickly otherwise. In this case the calla had better be placed before the fern leaves are put on, as otherwise you are apt to disarrange them.

Our first illustration shows an 18-inch cross with calla placed in proper position and covered with green, which completes the design in its first stage.



ARRANGEMENT OF CROSS. ILLUSTRATION NO. 1.

If a number of designs are to be make up, we will find it to our advantage to pass them all through the first stage before we advance to the next step. Let us constantly bear in mind that the saving in time, if only a few minutes, is often of the very greatest importance, especially in work of this kind when the order is of necessity given on short notice, and every minute counts.

We will now advance to the second stage, the base work, or what is generally termed the "blocking off" of a piece. For work of this kind we may use short stemmed carnations, short stemmed or broken off roses, in fact all sorts of odds and ends in white flowers that may be at hand. Generally carnations form the bulk of the material for this purpose, though white roses, such as Brides that have opened a little too far to be salable as cut flowers can also be used to advantage.

In illustration No. 2 we show the cross "blocked" and ready for the third and last stage, that of finishing, or "festooning" as we generally term it. As will be seen in No. 2 the flowers in base work are set in loosely and quite a distance apart. Our object should be not alone to turn out a tasteful piece of work, but to accomplish it by the use of the least possible amount of material. Few designs such as crosses, wreaths, etc., are blocked off now-a-days as was the practice in former years, by making up the base work of solid carnations without a bit of green and then festooning over this in the usual manner. Such groundwork, aside from the useless waste of material, is objectionable also from the artistic standpoint, as such a piece will always look stiff and clumsy. Still we sometimes find a customer who will insist on such an arrangement as he imagines it looks richer. In such a case we had better humor our patron, but be sure to figure in your price the additional amount of stock to be used.

Now for the finishing of our design. From the first step of tinfoiling and mossing up to and including the base work requires no great skill and is purely mechanical work in its nature. A little practice will soon enable us to accomplish it in a satisfactory manner but when it comes to finishing or, as we call it, festooning, we are called upon to use a little taste. Not every florist is a born artist, but if he possesses a love for flowers and a liking for the business, no matter how little natural taste he may have he will with time and practice prove himself a pretty fair hand in this line of business.

In illustration No. 3 we show the cross in a finished condition. Our object was to have this design made up in such a way as to show every flower to the best advantage and to use no more material than is absolutely necessary for effect.

Illustrations of flowers, particularly those of designs, obtained by the photographic process, are not always what we could wish them to be. The adiantum used in the design shown throws a shadow over the flowers placed behind it and therefore hides some of them from view.

The material used in this cross is all second grade stock and selected purposely of such kinds as are most commonly used for such work at this time of year, such as cull roses, Romans, valley, freesia and alyssum, with a finish of adiantum.

We have already treated the subject of stemming in a general way but will find it necessary to refer to it again from time to time as the various kinds of material used for different purposes are passed in review. It is difficult to state just how long to leave the stems of the flowers to use as festooning in small flat designs such as we have under consideration. Judgment will have to be used to some extent, as the nature of the material will have to be taken into account. Valley and Roman hyacinths wilt quickly and we should be careful to run the stems by means of the pick, into the moss, or at least bring the stem closely up to it. This should in fact apply to all other flowers as well. In stemming lily of the valley always wire in a leaf with the flower, but don't place the leaf too high; the flower should show well above it. As regards foliage for finish, adiantums in various forms are undoubtedly the best for our purpose. A. cuneatum being the most common in our market is at the same time one of the very best, a variety useful in many other arrangements as well, and should always form part of your regular stock.

Our fourth illustration shows a wreath of crescent shape made with the same class of stock with the addition of a few Harrisii lilies and a bunch of marguerites. The process of putting up such a design is nearly the same as that of the cross with the exception that no carnations or other flowers are used as a base, but all the flowers stemmed long and arranged loosely.

As the season varies so also will we find different varieties of flowers as we pass from winter into summer. Almost everything in the shape of white, cream or delicate pink will come in handy. In winter in addition to the varieties mentioned in connection with our illustration the camellia is largely used with very good effect, as is also Eucharis amazonica. In summer we can make good use of the hollyhock, gardenia, aster, tuberose, and if hard up for material may press the balsam into service. Roses and carnations we have with us always. Of the former Niphetos is the best variety for this class of work, particularly in the summer season, but we need not confine ourselves to white alone. There is no objection to the use of delicate cream or pink in funeral work, and although we may find sometimes that objections are raised against anything but pure white, still the majority of flower buyers prefer an arrangement with a shading of color, to that of dead white alone.

Ants.

Will some member of the craft kindly give information as to the best way to get rid of ants, both out and indoors, and oblige A CONSTANT READER.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

Flowers and Their Colors.

There are certain facts about colors in relation to flowers which it seems essential for florists and horticulturists to know. Sometimes it happens that someone who is directly interested in science (particularly in reference to its dealings with color) scoffs at the idea that an artist must by force of his natural gift possess any scientific knowledge of color. Science we know means in a couple of words, *truth* attained by a *methodical* course of study. The artist is the man above all others whose work is characterized by *method*. In the course of his work he must by necessity become acquainted with innumerable facts connected directly with the nature and operative influences of color. As a matter of fact all we know about color has been taught us by the scientist and artist. Still there is more to learn in the very simplest directions; yet we hear less about the simplicities of colors nowadays from artists and scientists, than we hear about the complications which naturally arise from its infinity!

We want to know *first*, what red *is;* we are not so particularly interested about queer things connected with it. We want to be sure *what* is really a simply red flower; we do not care particularly about the color pigment contained in its structure! In fact the visible conditions of color are what we want to know about, first and last.

We will admit at the start that there are four simple colors,—yellow, red, blue, and green. Before we go any further we must find out what is exactly red, or yellow, or blue, or green. Here comes difficulty immediately, because there is no standard to which people universally refer. But after a careful and scientific examination into the matter there is no doubt but what the four colors mentioned may be found pure and simple enough in the following four tangible objects, viz: A lump of yellow sulphur, or a lemon yellow African marigold; aniline pigment called rose cathame (when in dry lumps), or a Portia carnation; the zenith blue of the sky on a clear day, or the pigment called cobalt blue (also in dry state); and the pigment used by artists known as emerald green, or the bit of bright color at the top of the stem of a calla. These objects are so close to the truth so far as simple color is concerned, that it would be next to impossible to procure any substitutes which would improve on them. I do not say that the above objects are perfect representations of the four colors, but I do say that they will serve the purpose.

It will be noticed that I do not name a blue flower; there is no representatively blue flower. Perhaps the forget-me-not is the nearest approach to one, but its color is weak and not quite right in quality.

Now, having settled upon something definite as regards simple colors, we may proceed with the examination of other colors *less simple* yet quite common. The familiar names—crimson, magenta, solferino, scarlet, pink, maroon, purple, violet, lake, carmine, and ultramarine, all seem to have no definite limitations in the minds of people who have constant recourse to the use of such terms in trying to explain the color of a given object. Thus, in a half dozen floral catalogues before me, I find the term scarlet used improperly; it comes hit or miss in all six cases; in fact I can take it for granted that what is called scarlet usually means a bright red without much regard for its actual quality! The Madame Crozy canna is a pure scarlet flower, its *quality* of color, in a word is scarlet, and I may say the same thing of the King of Tom Thumbs nasturtium, although its force of color is different. However, both of these flowers are in color characteristically scarlet. It is a fact that there is no scarlet present in either balsams or phloxes! These two families (so far as practical cultural results are concerned with them to-day,) are incapable of producing scarlet flowers. Yet I find in all six catalogues a "scarlet phlox."

Now, I will admit that I am aiming for uncompromising accuracy, and that so far as this is concerned, there is nothing absolutely necessary about it, so the flower seeds sell and those who buy them know pretty well what they are getting. But at the same time a little more knowledge of color would greatly help both the selling and purchasing parties; and it must be admitted that absolute unanimity of opinion in regard to scarlet would be a great advantage. When, for instance, one buys a packet of seed labeled Yellow Phlox Drummondii, and the ultimatum shows a deep cream-yellow flower, one experiences surprise; it follows then, that the name *yellow* meant little or nothing. So-called scarlet balsam may also lead one to believe that the next flower named scarlet by the catalogue compiler will bear the same hue; but again there is surprise in store for the purchaser, and the latest scarlet flower proves itself a clear cherry, or pure red one!

To settle definitely on the true hues of these common but not simple colors, I must describe them scientifically. A little light of this kind will certainly enable us to put our finger on true hues without the slightest danger of error.

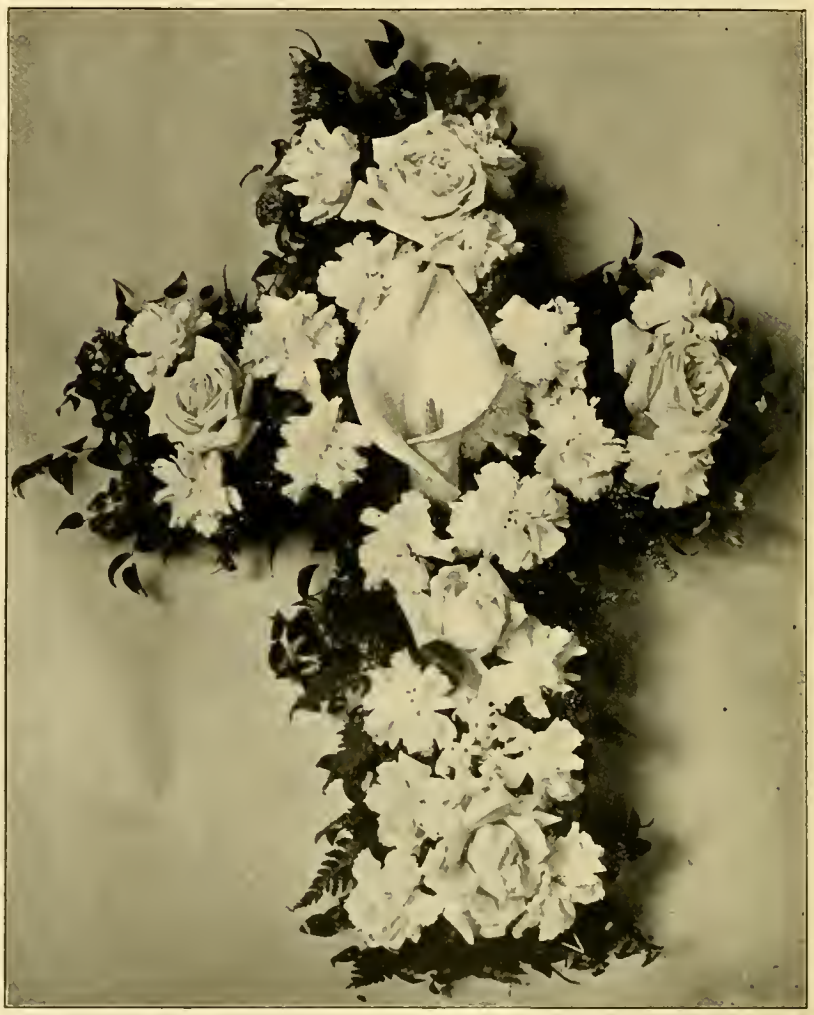
Scarlet: Scarlet is a red with a proportional amount of yellow in its composition. The color of red iodide of mercury is a typical example of it. Red iodide of mercury is called pure scarlet. A color which is more orange than red lead and less orange than Chinese Vermilion is *not* called scarlet.

Magenta: This is a color of high luminosity, lying in the spectrum between crimson and purple, and is strong in quality. The color (an aniline or acid one) was discovered in the year 1859 and named for Magenta, Italy. This color is common in petunias.

Solferino: This is a color less strong than magenta but of the same quality as the latter; it was discovered in 1859 and was named for Solferino, Italy. It is sometimes called rosaniline, and is a luminous, rose-purple color.

Pink: This is a color which when pure is a dilution of pure red of low chroma but high luminosity.

Green: This color is improperly considered as a mixture of blue and yellow. It is a *simple* color of the solar spectrum lying between wave lengths 0.543 and 0.511. Emerald green pigment is its best representative, the spectrum of which shows a wave length 0.524. A mixture



ARRANGEMENT OF CROSS Illustration No. 2 [See Page 754.]



ARRANGEMENT OF CROSS. ILLUSTRATION NO. 3. [SEE PAGE 755.]

of blue and yellow only partially and inadequately represents pure green.

Crimson is a bluish red nearer pure red than magenta.

Maroon is a dark red; that is it has black in its composition.

Purple lies between magenta and violet.

Violet lies between purple and ultramarine.

Ultramarine is an intense blue with violet in its composition.

Lake is a crimson red, and carmine is like it except that most of the blue tincture has been separated from it.

All these colors are more or less pure in flowers. Pure red is more or less mistaken for scarlet, but it resembles far more closely what is generally called cherry red. Certain flower families distinguish themselves in presenting one or more strong hues, and absolutely refusing to show some one other hue! as is instanced by the fact that there is no blue chrysanthemum and no yellow aster.

In a later issue I will have something more to say about certain colors which certain flowers are partial to. If we would be sure about correct names for colors in the compilation of catalogues it would be best to point out the pure color tones which particular flower families refuse to recognize.

F. SCHUYLER MATHEWS.

Chicago Notes.

J. C. Vaughan's establishment at Western Springs is always an interesting place to visit, particularly at this season of the year when the houses are filled with thousands of young plants grown for the shipping trade. Under the able management of Mr. Wilson, who has entire charge of the place, the whole stock looks exceptionally fine this year.

One of the first things that caught our attention was the admirable arrangement of the stock house. This house is about 12 feet wide with a three-foot walk down the center. On one of the benches, arranged in alphabetical order, will be found every variety of plant ready for shipment. A space that holds from 50 to 100 2-inch pots is assigned to each variety. The division lines are marked by means of a lath nailed across the bench. On the opposite bench, arranged in like manner, are the different sets of collections such as are offered in catalogues. Over each section and in plain view is placed a sign with the name of the variety; besides every one of the plants is labeled ready for shipment with the printed water proof paper label generally used by those in the shipping trade. This labeling, by the way, is done by a force of young ladies. The employment of female labor in greenhouses is quite an innovation, and the boys had better look out for their laurels; if the fair sex once enters a field there is no telling where they may stop.

The advantages of having a full list of your shipping stock all together in a systematic order is self apparent. A great saving of time will be effected in filling orders. No matter how well posted your men may be in reference to the location of stock, if the same be scattered through a dozen or more houses the time consumed to collect an order will be a great deal more than would be the case by having it in compact form. During the shipping season one man is in charge whose duty it is to keep every space filled.

We noted a fine stock of young plants of the new rose Senator McNaughton. To judge from the stock plants grown in another house, planted on benches, the rose is of good habit and apparently a free bloomer; in fact there seems to be no difference between this and its parent, the Perle, except the color, which is certainly not white but a light yellow; the blooms as seen here are just the shade of Mme. Hoste, a color, to judge from a dealer's standpoint, that hasn't got character enough to make it a good market sort.

Another novelty in roses of recent introduction from England is a new climber, Crimson Rambler. The plants are very thrifty and show a vigorous habit. The blooms are dark crimson, rather small but very double, and produced in large clusters.

Little Gem callas are grown in large quantities to meet an increasing demand. The flowers of this little calla are very useful in arrangements of cutflowers, and can be used where the flowers of the larger forms would be out of place. This variety is a very free bloomer and as the plants take up but little room it seems that it might be grown with profit for the cutflower trade. There is also a form of the yellow calla; this however is of no merit as a cutflower.

In cannas we find every sort of established reputation, as well as the latest novelties. Some 20 new French sorts, exhibited at the Fair last summer under number, are grown here. Of the five varieties that were honored with a medal three are seen in bloom, but as most of us probably saw the plants bloom last summer we will omit a description here. But as awards were made to these varieties under number it may be of interest to give the names bestowed upon them; No. 103 has been named M. Mesnier; 104, Midway; 107, Chicago; 114, Octave Mirabeau; No. 124 is not named yet.

In the palm houses we find a fine young stock of latanias, kentias, arecas, cocos, etc., in flourishing condition. Here we also note some half dozen of fine Dracæna Massangeana 6 feet high and with good healthy foliage from top to bottom. Also a superb lot of Araucaria excelsa imported last fall.

In the stove section our attention is at once caught by the beautiful Strobilanthes Dyerianus, a novelty from England which was awarded a medal at the Fair. The dark green glossy foliage of the plant marked with purplish blue shading to silvery white is very striking. Mr. Wilson informs us that this plant is easily cultivated and is readily propagated from cuttings.

On the other hand Cineraria m. aurea, also a late introduction from England, is not as easily grown, at least Mr. W. finds it rather difficult to manage. It roots slowly from cuttings and seems to make but little headway in growth. This plant, by the way, looks like a variegated form

of Centaurea maritima and we mistook it for such, when first seen.

Gynura aurantiaca, although not a new thing, is not as well known as it should be, while a fine greenhouse plant it is also a good bedder. The velvety purplish hue of the leaves is very striking. The flower is a bright yellow.

O. P. Bassett's place at Hinsdale is noted for two things in particular: Fine roses and early Harrisiis. For a number of years good Harrisiis were cut commencing Nov. 1 and sometimes a week earlier. Mr. Andrew Benson, the genial foreman, don't claim any special merit in producing them thus early. In his opinion the following points are to be considered in producing good early blooms: In the first place in selecting his bulbs he prefers a sound medium bulb, one that will produce from 2 to 3 flowers. These are planted in rather small pots, but as soon as rooted and started to grow, the plants are pushed by heavy feeding. The water, both for syringing and as applied to the roots, is never used cold but of quite a high temperature.

Outside of Harrisiis and other bulbous stock nothing but roses are grown here. American Beauties are Mr. Bassett's specialty, and these are usually finely grown and produced in large quantities. At this time of year of course Beauties don't look at their best, but we still note some very good blooms on long stems.

"I make it a point," remarks Mr. Benson, "to plant Beauties early, the last house not later than May. In this way I get good strong plants by early fall. I prefer to grow them on benches as I do all other roses, planting young stock every year. Last spring we were rather short on young stock though, and we replanted one of the houses with old stock, and I must admit that this house did fully as well as the rest. The last house was planted the latter part of May with stock right out of the cutting bench, and out of this house, by the way, were cut our premium flowers exhibited at last fall's show."

Five houses 170x20, and four 162x20 are devoted to Beauties. The balance of the extensive ranges is taken up by the smaller varieties.

Mermets and Brides are looking fine. A house of the former variety is particularly good, but the Mermet will have to give way to the Bridesmaid. Of this latter variety we find some ten to twelve thousand fine young plants. This sort will be grown extensively next year. Testout looks well but has produced few flowers during the winter months. A more extended trial will be given next year. Kaiserin is also grown in a small way. Mr. Benson don't seem to think very highly of this variety as a market sort. He argues that the blooms which show at their best when partly or even fully open, will be taken by the buyer for old stock that will not keep. We think however that he is mistaken, and judging from the few good flowers we have seen we predict a future for this new rose. In habit and constitution but little fault can be found.

We also note some very good Woottons. The best flowers are produced from 2-year old stock. Mr. B's experience has proved that with him 2-year old plants replanted give the best result, both as regard quantity and quality.

Mr. Bassett's new houses built last summer have the short span to the south. So far as can be judged by this season's experience this plan is very satisfactory. One objectionable feature is that when tall growing varieties, such as Beauties, are grown, the bench on the north side of the house will be somewhat shaded, but if the arrangement of the benches is such as to bring a walk inside of the north wall this objection will in a great measure be overcome. In all other respects this style of building is considered a success. B.



ARRANGEMENT OF SIMPLE WREATH. [SEE PAGE 755.]

Lily of the Valley.

The accompanying engraving is from a photograph of a superb bunch of lily of the valley recently sent to us by Mr. Aug. Jurgens, who is acknowledged to be the most successful grower of valley for the Chicago market. The picture shows the bunch a little less than half life size, the longest spray in the bunch measuring 15 inches in length.

As all cut flower growers know, forcing lily of the valley is one of the most "onsartin" ventures in the business with the majority. One may meet with splendid success one year or several, and just as he is prepared to consider himself infallible an overwhelming and expensive failure knocks the conceit out of him. While probably no rules can be laid down that will insure success there are many little wrinkles that have been employed by successful growers that are good to know.

In answer to questions Mr. Jurgens said:

"In the first place we must start in with first-class plump and sound pips. If the stock has in any way suffered the most experienced grower will be unable to produce a good flower. I think it therefore of the very greatest importance to select A No. 1 pips and have them in perfect condition. There is a considerable difference in the class of roots we import. The superior quality is not always determined by the size but very often the greatest difference is found in the soil where the plants have been grown. For myself, I prefer what is called the 'Berlin pips,' which means a root that has been grown in sandy soil. The term 'Berlin pip' is applied not alone to the valley grown on the sandy plain in and around the city of Berlin, but also to all stock grown in similar soil, as for instance at several points around Hamburg. In my opinion these pips are superior, especially for early forcing, to those grown on heavier soil.

"Having ordered my stock from a responsible grower, I insist upon having it well packed in damp moss. We often find, unless special instructions are given, that the roots are packed into boxes without any packing material whatever. The consequence is that the roots around the sides of the boxes dry out and arrive in a wilted condition. Of course you can swell them out again by soaking with water but the vitality of the pip is greatly impaired. There are other dangers encountered on a voyage across the ocean that we are powerless to guard against. One is the danger of the stock getting heated in the close atmosphere in the hold of the vessel, but on this we must take our chances.

"As soon as the stock arrives it is at once taken out and heeled in in some convenient place where we can get at them at any time during the winter as the pips may be wanted. I dig a trench, say four feet wide and about one foot deep; I then place the bundles of roots in rows closely together and cover with six inches of soil. In this shape they are left until cold



A FINE BUNCH OF LILY OF THE VALLEY. ONE-HALF LIFE SIZE.

weather sets in. I allow the frost to penetrate down to the pips before covering. Unless you get the soil frozen before covering you will find that the pips start to grow before you are ready to use them. The covering best suited for the purpose is either hay or straw, or very coarse strawy manure. Don't put on any manures that will heat, as this will draw the frost out of the ground and start your roots to growing. Sometimes we get a heavy snow fall early in the season, which if left over the beds will prevent the ground from freezing, and in such a case it should be removed.

"Since cold storage of pips has been adopted, we do not attempt to force from the new crop until say January 1. It is difficult to force valley earlier, and grow it with sufficient foliage, but if we start in with January no great difficulty will be encountered.

"There are different methods of handling pips, and each may have its advocates. Some prefer to plant them in flats in soil, and others use sphagnum for the purpose. For myself, I take the roots out of the ground in such quantities as may be desired and plant directly onto the bench in rather fine sand, in rows three inches apart. The roots are then watered thoroughly and covered with sphagnum, sash are placed over them, which is shaded with canvas.

"I grow my valley in a temperature of from 80° to 90°. Although good flowers may be produced by running up to 100°, it is best not to force them too hard if you wish to produce stock that will give satisfaction in the market. Flowers grown in a moderate heat will last longer and furthermore the flowers will be more perfect, as the lower bells on the flower spikes are apt to shrivel if grown in extreme heat.

"After the pips have started to grow the moss is removed and as soon as the lower flower bells begin to turn white the sash are taken off in order to give more air and harden the blooms, but careful attention must be given to shading, and

right here let me state that this is the most critical period, as this is the time when the finish must be given to the flower and foliage which makes it marketable. If shaded too closely the stalks will draw up and the foliage remain a sickly yellow. For shading canvas tacked to a wooden frame will answer very well but should be placed over the beds in such a manner as to allow a free circulation of air. As soon as the sun is going down, towards evening, the shade is taken off and put on again in the morning, or left off altogether in dark and cloudy weather.

"The existing conditions in the market you cater to will determine largely how to finish your flowers. For myself I prefer to grow the flower not too long, rather aiming at a perfect bloom and strong, dark foliage. But I find that as a rule the stock drawn up taller meets with the best demand although the additional length is often obtained at the expense of the flower.

"A great deal in valley growing depends on proper watering. Having watered the roots thoroughly when planted, don't water oftener than is needed to keep the sand or moss from drying out, and stop watering altogether as soon as the flowers turn white.

"Growing valley in summer from pips kept in cold storage is not a difficult matter provided you keep your pips in proper shape. I grow them in a natural way planted in soil on benches. The soil should be very firmly packed around the roots. The house to grow it in should be as cool as is possible to have it, but it must be airy and well ventilated.

"But the storing of the pips to keep them in absolutely dormant condition is the main thing. By trusting them to the care of the cold storage warehouse we often run great risks which may result, as was the case with me last summer, in the loss of a large amount of stock. If the machinery in such an establishment should get out of order, or some other accident should happen, and in consequence the temperature rise to 32° or 35° that would mean ruination to the stock as the pips would start to grow at once. To avoid such risk I built an ice vault for storing my own stock. The roots are packed in boxes of convenient size to handle and left out of doors until frozen through. These are then taken into the cold storage, which is kept at a temperature of 20° or less; never allow it to rise to 30° to 32°; although 32° is considered the freezing point nevertheless the temperature at such a degree will gradually draw out the frost, so let us remember that in order to insure success the roots must be kept frozen stiff."

For keeping his valley blooms after they are cut Mr. Jurgens has an arrangement at once simple and efficient. It consists of a zinc lined wooden box 2x3 feet and 4 inches deep. Over the top is tacked wire netting with meshes about 3 inches in diameter. Each one of these meshes will hold a bunch of 25 sprays. The main point of advantage of this arrangement over that of the pot generally used for holding the flowers, is that each bunch will sit up straight and don't crowd together and as the pan is but 4 inches deep the flowers will not sink down into the water as is often the case, and thereby become water soaked. By keeping the pan filled within an inch of the top the stems will always reach the water.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.



What Can be Done With Gontier.

The vase of Papa Gontier roses shown in our illustration contains the most remarkable specimens of this rose that have ever come to our notice. The flowers as shown are reduced to one-fourth of their natural size. For length of stem, clean and healthy foliage, as well as size, substance and color of blooms nothing better could be desired. The stems indeed might put those of American Beauty to shame. The shoot just showing bud, as seen at the base of our vase, was cut from a cane just four feet from the ground.

The blooms we illustrate were cut the day previous to their being photographed and have not been "swelled" by keeping in a cool cellar for a week or so. The Gontier above all other roses, as we all know, may be greatly developed in size by keeping in a dark and cool place after cutting, and if handled properly and not kept too long will last fully as well as when fresh cut.

These flowers were grown at the Klehm Nurseries at Arlington Heights, Ill., and are produced from plants three years old, planted in solid beds. We find two houses, each 20x100, which at the time of writing, March 15, are just coming into full crop and are literally one mass of buds. The wonderful vigor and enormous growth must be seen to be fully appreciated. But let Mr. George Klehm tell us how he does it.

"The site," says George, "where these houses are built was originally a vineyard. Tons of grapes have been grown in the very same soil where you now see these roses. The soil is a stiff and rather heavy clay, remarkable in its retentive quality as regards moisture, well drained of course. There was no special preparation of the beds further than to dig holes eight inches in diameter which were filled with a somewhat lighter soil made by adding partly decayed sods, but no manure, and into this the roses were planted. No mulching or top dressing was ever applied but the plants are freely fed with liquid manure.

"During summer the plants are allowed to rest. From July 1 to October 1, not a drop of water is applied. Nevertheless the growth is never entirely checked. The ground will bake as hard as a brick and open fissures large enough to put your hand in but yet the bushes will grow and flower right through the hot dog days. As the moisture in the soil falls lower and lower as the season advances, the roots will follow in search of it to an almost incredible depth, but no attention whatever is paid to them until about October 1, when the plants are taken in hand, the surplus wood cut out and the remaining canes tied down, after which the beds are thoroughly soaked with water, which will be sufficient for the winter with the addition of course of what water is necessary to dilute the liquid manure.

"The houses are kept at a night temperature of 50°, with the exception of perhaps at Christmas time, when the houses may be run from 5° to 10° higher in case the crop should be a little later than desired.

"Growing Gontiers in solid beds you cannot avoid getting them in crops, but as the first of these heavy crops, if you manage right, will be in at Christmas, you will be able to take advantage of the high prices prevailing at that season of the year; the second crop which is now on generally finds us in the middle of the Lenten season, which of course is not the very best time of the year to dispose of them, still if the stock is fine they will net about as much as most of the larger teas, and never go begging on the market. Doubtless more blooms can be produced when grown on the benches, but when it comes to size and quality I prefer solid beds.

"We have grown fairly good Gontiers for a number of years, but nothing quite as good as this year. I think that the use of rain water has a good deal to do with it. Until last summer, when our system for storing rain water was completed, we were dependent on well water alone, but now we use only the former, as we have an almost unlimited supply."

This system of storing and distributing rain water is quite interesting. The main cistern is located under the floor of a large storage house adjoining the greenhouses. This is a structure 110x26 feet, built of stone and brick and the cistern covers the entire floor area and is 6½ feet deep. Connected with this main reservoir are three distributing cisterns, two for the use of water and one for diluted manure water. The latter again is connected with a fourth one containing liquid manure which draws its supply from a fifth one located in the barnyard. The whole system is operated by a steam force pump. The distributing as well as the main reservoir are directly connected with the gutters that carry off the rain water from the roofs of the houses. When full the smaller cisterns, through an overflow pipe, discharge the water into the main reservoir, when empty the needed supply is again drawn back into them by means of the pump. A steam pipe is run through the distributing cisterns, which heats the water to a desired degree.

The manure cistern, as stated above, is located in the barnyard about 100 feet distant from the houses. This is 12 feet in diameter and 12 feet deep, vaulted over, with an iron grating. On this is placed first brush and then some coarse straw onto which the manure is piled. If the rain fall is not sufficient water is pumped onto the pile to furnish the desired amount of liquid. This liquid manure, after passing through a strainer, is led by means of a sewer pipe to the receiving cistern, located in a convenient place under the houses. From this it may be pumped into one of the three smaller cisterns, where it is diluted to the proper strength, and through a hose applied to the beds.

The advantages of rain water over hard water drawn from a well is great, and can't be denied. The cost of building such an arrangement as we have attempted to describe is not a small item, yet if put down in a first-class manner will last a life time, and doubtless will prove a paying investment in the end.

How Many Men to Employ.

With reference to the inquiry from your correspondent "Rosegrower" as to the number of men it should take to run 9,000 feet of glass, would say that it somewhat depends upon the material grown, which your correspondent does not state; however, taking it for granted



PAPA GONTIER ROSES. ONE-FOURTH LIFE SIZE.

that it is a general florist place, growing roses, carnations, etc., would say that three good, active men, paid a fair wage, ought to be able to run it unless intricate plants, such as palms, etc., are grown. These require considerable more labor than such things as cut flowers, roses, carnations, etc.

Your correspondent's question opens to me a subject upon which many growers in the country have spoken to me, and I am afraid that a great many of our florists do not appreciate the fact that a man earning, say $1.50 per day, if he can produce for his labor, say $2 a day, for his employer he is earning a good percentage on his wages. To run a place with insufficient help means a loss both ways; it means a loss in the amount of material that the greenhouse can be made to produce, and a loss in the quality of the same. The florist business, like all others, must be run to the very best point possible to get the best returns for the same. Take for illustration, second quality roses to-day in all the leading markets of the country I believe are selling for about one quarter of the amount received for A1 quality, and where a place is run with insufficient help the second quality will be the predominant product. Even supposing that the plants get a reasonable amount of attention and are growing well and producing large flowers, unless the stems are straight and strong, the bud standing straight on the stem, they are ranked as second-class flowers. To avoid this it is necessary to have the buds tied up nicely so that in their development they produce straight stems with good, clean foliage and a good, fine flower on the end of it. This will mean that the flower when put in the market will bring anywhere from 25 to 75 per cent more than if sent in to the market with a

crooked stem. All this means additional work and oftentimes in addition to the three men quoted above for running the 9,000 feet of glass a nice, clean, industrious boy could be employed to good advantage, whose light nimble fingers would be of great assistance in keeping all the buds tied up as they are produced so as to make them grow with good stems as above described.

Then, again, there is another point which very many growers overlook, and that is *cleanliness*. They may suppose that because the plants are growing well and are looking thrifty there is no necessity for cleaning up rubbish which might happen to fall under the benches or otherwise collect there, leaving decaying matter to breed fungus, harbor wood lice and thousands of other pests which afflict the florists. If this rubbish is all cleaned away regularly, the houses kept clean and neat, it will not only be a great improvement as to the produce of the place but will add immensely to the pleasure of the proprietor.

A short time since I was visiting two places in one day. In one place you could not find a dead leaf or a weed in all the establishment either on roses grown there or any other plant on the place except a few decaying leaves at the base of the carnations, which it was impossible to get off without destroying his crop; here everything was a pleasure to look at, everything was A1 in quality and the returns, notwithstanding the dull season, were as good as could possibly be gotten from any set of greenhouses. Furthermore, the man contemplates adding another house to his little range this year, possibly two, with the results of his savings from his year's work.

Within a short distance of this man I called upon another; but, woe betide me! I should have gone there first. Look where you would you could see rubbish of all sorts and descriptions; broken pots, old ties, dead leaves and every other conceivable kind of rubbish that could be collected in a greenhouse was scattered all through the place, covering almost the entire surface under the benches. The walks were muddy and, to say the least, one had to wade through many of them with rubber boots on to insure getting through without getting the feet soaked. In this place it was nothing but grumble by the proprietor from the time I entered until I left about the results and the returns his greenhouses were producing. I ventured to suggest to him that a little more labor put into it would help to increase the returns of his plant, but a shrug was all I got and "I can not afford that; I am going to let one of the men I have go within a few days."

The chances of making greenhouses profitable in both cases, in my estimation, were about equal. One was doing it with good management, help enough to keep everything in good shape. The other was trying to run it without sufficient help, with the result as given above, and I fear there are very many who have the same opinion as number two described above.

I am fully aware that in many cases the present season it has been a very hard thing for very many of us to make both ends meet, or in other words get sufficient returns out of the produce of the greenhouses to pay our way clearly, but when it comes to reducing help and think you are going to gain anything by it I do not think any greater mistake can be committed. If our business is worth anything at all it is certainly worth all we can put into it, and the old axiom is just as applicable to-day for us as for any business in the country—"What is worth doing at all is worth doing well."

JOHN N. MAY.

Climbing Niphetos Rose.

The accompanying engraving is from a photograph of a plant of the Climbing Niphetos rose sent us by Mr. F. W. Plummer, Kewanee, Ill. Mr. Plummer writes as follows:

"It is not quite two years old and is planted at one end of a 70-foot house in a solid bed. The plant is over fifty feet long and was full of bud and bloom when photographed (Feb. 4). There hasn't been a day during the last fifteen months that I could not cut flowers from it. It is a very free bloomer with me and the flowers are very large and last well without cutting."

Seasonable Hints.

Before the first of April you should endeavor to put in your main crop of cuttings of a good many useful plants that figure largely in your spring sales, and for which there is plenty of time left to grow them on into the right useful size for whatever purpose they are needed. Ageratum put in now will be just right to have in 3-inch pots by bedding out time, with us the last week of May or first of June. Heliotrope should go in at once and all you want of it. The latter you often see stunted. It should never be allowed to get pot-bound, but should be kept growing continuously from the time it is rooted. If allowed to remain long for want of pot room it is subject to a rust very similar to the verbena rust. Lemon verbena, of which you never have enough should be propagated now, and this is as late as the cuttings will make plants large enough for spring sales. I have heard a great many florists say they found this a difficult plant to make root. I have found it as easy to root as the common verbena providing the cuttings were young and brittle and they be kept continually wet in the sand, and never allowed to wilt from either the bed being too dry or the bright rays of the sun; and that rule applies to most all soft-wooded cuttings.

The common little sweet alyssum (only the double) should be propagated largely if you have much veranda box or vase business, for it is one of the few white flowering plants we have for the purpose, and perhaps you will have noticed there is a sad lack of white in all such work. After they are rooted and remain a few weeks in a 2-inch pot they should get a pinch and a shift into a 3-inch and be put into a mild hotbed where they will make fine plants for the above purpose. Don't forget German ivy, so-called. Common as it is, it is one of the most useful droopers we have for boxes, etc.

Anthemis coronaria sells well when in bloom but is not a very satisfactory plant. It should never be used in vases or baskets and only where it has unlimited root room. It roots most freely and quickly, makes a bushy little plant covered with its bright yellow flowers. The common white feverfew and Salvia splendens are two other plants that can be rooted now and for which there is always a good demand for mixed borders, etc. I am putting in a large lot of chrysanthemums just now. You can't wait any longer, for the old stock plants demand it. Chrysanthemums are propagated all the time from January until August. Those propagated about end of April are the most useful size for planting on the benches to produce two or three good flowers each or for planting on a bench with the intention of being lifted in September for moderate sized pot plants. Those struck now, if kept growing and not allowed to get hard wooded before going on the bench in May or June, will produce the finest flowers. Mind, I am not pretending to write for those who grow exhibition plants. They have been taken care of long ago. Remember the valuable point that Mr. Wood gave us last summer, and that is that chrysanthemum cuttings in the summer, or when there is little heat in the sand and the weather is warm, should be kept saturated; twice a day on bright days is not too often to give the bed a good soaking.

If your propagating house is exposed to the sun there are different ways of shading it. One way is to give the glass a coat of lime or naptha and lead. The trouble with that method is it is there when you want it and it is there when you don't want it. Many cover the cuttings with papers. That I believe is very objectionable, as it does not allow a free circulation of air around the cuttings, and would be just the right conditions to produce anthracnose, which carries off so many thousands of cuttings every year. I use for shading the cutting bed a covering of cheese cloth. It is just the thing; it gives subdued light without heavy shade. Nail a strip of wood to the posts of the greenhouse 9 or 10 inches above the cuttings and projecting to the front of the bed; on these tack a strip of wood running lengthwise of the house, to which fasten the cloth; on the front the cloth is fastened to another strip of wood—if round so much the better; this is to roll up the cloth when you don't need it and keep the same in place when you do. By this means you can shade during those hours and days when shading is necessary and not otherwise.

About the 20th of this month is a good time to sow the most important annuals, asters, phlox, balsams, ten-week stock, etc. Unless you raise any of these in very large quantities a convenient sized flat is the best for the seed, in two inches of soil. It is very advisable to well soak the seed boxes or pots, or rather the earth in them, before sowing the seed. Then when the seed is sown and a slight covering of soil put on a very slight sprinkling suffices, and there is no danger of getting a large proportion of the seed washed into the southwest corner or any other depression. Don't sow Cobæa scandens until the first of April or they get too long and troublesome.

The 2-inch pots of money vine and glechoma that have been wintering in a cold frame should now be brought into the houses. After a few week's growth put them into a 3-inch. They are almost weeds but they come in very useful for the purpose for which they are adapted.

As soon as you can handle the little plants of petunia from the seed boxes they should be carefully put into 2½ or 3-inch pots, 7 or 8 plants in each. If allowed to stay long in the seed pans they are very liable to damp off or draw up weak.

Don't forget to watch your Japan lilies that have been under a cool bench for two or three months. They won't all start at the same time. As soon as any of them have made a growth of a few inches they must be given the light in a cool house.

Cannas of all kinds should be started by this time. Caladium esculentum there is no hurry about. The first week of Apri



CLIMBING NIPHETOS ROSE.

is time enough for the latter. You will save valuable bench room for several weeks by putting both of these in flats of sand and place the flats on the pipes. The caladiums especially will start in one-third the time they would if put into 5 or 6-inch pots in soil.

The extraordinary fine and mild weather we have had the past three weeks has upset the Easter crop calculations of more than one old head who professes to know all about it, and with a good many the question will be how to keep them in good and saleable shape for another week. Tulips are greatly benefited by being under a cool bench for a few days after about fully grown. They wilt less when cut and much increase in size and quality. After being fully developed you can keep them a good week this way. The same can be said of narcissus and hyacinths. A good heavy shade and the ventilators up both day and night will help much to retard or keep, if well in flower, such plants as lilies, azaleas, lilac, cytisus, deutzia and others. It is a little early yet to put on a permanent shade, and perhaps the crops coming after these will want all the sunshine we will get for a month or two. A very cheap but effectual shading can be put on by getting a little pure clay and with water enough to make a wash thin enough to pass through a syringe you can shade a house dense enough for the purpose in a few minutes. A heavy rain will wash it clean off and if the rain don't come soon enough to suit you one application of the hose will answer the same purpose. Under these conditions I have been holding a thousand Bermuda lily plants almost in a state of "arrested development" for the past 10 days ready to open at my command.

[The above notes were intended for last week's issue but owing to mechanical difficulties, we were unable to get them into that issue. The following are written for this week.—ED.]

For a few days after Easter the greenhouse will have a very dilapidated appearance. If all your Easter crop could be clean sold out and carted away it would be a blessing, but it can't be so, and there will be always more or less plants left over or hacked about. It is most fortunate always when Easter comes early for you have the more time to get your spring stock in shape. If you have plenty of outside space on your place there are several plants that can be used to advantage. Spiræa Japonica if planted out in the ground is as hardy as a pic plant and will yield a crop of flowers every June which come useful; but if you don't have that chance to use them don't attempt to keep them over to force again; they are so cheap it would never pay. Harrisii and longiflorum lilies if treated decently, that is kept natural and with a moderate amount of light, will well repay to plant out in May or end of April. In July and August the majority of them will send up a spike of flowers. I never could see any profit in saving the old bulbs for forcing purposes.

If you have any cytisus unused and past their prime, cut them, or rather trim them, back to compact heads, and keep growing.

Don't forget to pinch off the old seed pods of azaleas as the petals drop off. If you don't do this it retards the young growth which furnishes the flower for another season. After a few weeks the azaleas that are carried over should have a much warmer temperature than you have been keeping them in and receive daily syringing and encouraged to grow. And don't be afraid to pinch off any shoots that are making an extra strong growth. The object is to keep them compact and they will stand a lot of pinching.

If you have the use of an ice house it will be found a very profitable piece of work to put away a lot of your flats of Von Sion and such tulips as La Candeur, Tournesol, etc., in a temperature of 35° to 40°. They will come in most valuable at Decoration day. But do it at once as this wonderfully early season will soon have them in bloom if out of doors. Last year I put away several thousand Von Sion in this way and brought them out 10 days before I wanted them in flower, and extremely useful they were.

WILLIAM SCOTT.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.



Carnations.

We are now getting into planting-out time, and it is well to have everything in readiness, so that when a favorable opportunity comes we can take advantage of it.

The first thing is if you have plenty of land from which to select your plot. About the best plot you can select is a good piece of sod, the older the better, with one exception, and that is if you are bothered much with cut worms. In this latter case it is better to take a plot that has been bare the whole winter.

The next thing is to see that it is manured properly, and right here is where a great many differ. I prefer to use good stable manure that has been heaped the summer before and turned once or twice. This should be used in accordance with the requirements of the soil; if rich a very light coat and if poor a good heavy one will be required. This manure question is really of great importance, and it is best to err on the poor side, as you can help yourself out then, but if you get too much on and a very wet season turns in, your plants will get so big and soft that it will be almost impossible to handle them in the fall.

In some soils or some sections of the country phosphates are used with good success, but I would advise all who do not positively know that they are good for their soil to go very slow and make an experiment on a small scale one season before using them to any great extent. More than one grower has learned to his sorrow that phosphates and his soil did not agree, or that he did not thoroughly understand the use of them in connection with carnations.

After distributing the manure plow it under and harrow your patch well. When you are ready to plant take a shovel plow and throw up rows about two feet apart. If properly done they will be about six inches above the level; then let a man go along with a rake and rake out all the clods and level them off. This is quickly done and will give you a nice even surface to plant on, about two inches above the level. With this kind of a row you can laugh at spells of wet weather that prove so injurious sometimes in the early part of the season. On these rows the plants are put from six to ten inches or a foot apart according to their growth, the object being to give them plenty of air on every side, and so they can be nicely worked and kept clean.

In regard to the time of planting you will have to be governed by the hardiness of your plants; if they have been well hardened off a light frost is no injury, in fact it is a benefit. If they have been grown rather warm it is best to wait until all danger of frost is over.

A. M. HERR.

Snails Among Carnations.

Replying to the inquiry about snails there is only one practical way to get rid of these pests, and that is to catch them and kill them. This can be done by going over the houses after night and gathering them in by hand or placing lettuce leaves on the beds or benches and in the morning you will find them congregated under them and they can then be gathered up and destroyed. Sliced apples can also be used for this purpose, and salt if used on the beds sparingly so as not to injure the plants will kill them. Houses infested with snails should be thoroughly cleaned up during the summer season so that they do not lodge under boards, etc., and breed. A good fumigating with sulphur and giving all the benches and boards a coat of whitewash is a benefit in every way and will help keep them out.

A. M. HERR.



CYPRIPEDIUM X GRAVESÆ.



Cypripedium Leeanum Giganteum.

The cypripedium honored with the name of Leeanum was received with much pleasure and surprise when exhibited before the Royal Horticultural Society of England early in 1884, and without the slightest hesitation it was unanimously awarded a first-class certificate, a merit which it justly deserved. Two years elapsed and another improvement appeared, viz., C. Leeanum superbum, much larger and more vividly marked than its congener; this also was in due course placed before the society for their consideration, coming from the Dell collection near Windsor, England, and owned by Baron Schroder, and also secured a first-class certificate.

Since that time several very distinct forms showing more or less variation have flowered, but the variety here figured exceeds them all and possesses a title which it worthily bears, viz., C. Leeanum giganteum. In size it far exceeds any variety yet flowered; its dorsal sepal measures 2¾ inches across and is almost round, the predominating white being purer than in any other form and the dense purple spotting confined to the median line, which at once distinguishes it from C. L. superbum. It was obtained from the reverse cross of the latter, C. Spicerianum being the seed parent, the pollen coming from a fine form of C. insigne punctatum violaceum. It was recently seen in flower at Orange, New Jersey, in the collection of Henry Graves, Esq., and was much admired. Its free habit, extraordinary size and appearing during the winter season, have made it a great favorite. It requires the same culture as is given to the ordinary form, viz., ample water during the summer months, gradually reducing the supply as winter approaches.

A. DIMMOCK.

Cypripedium X Gravesæ, N. Hyb.

(*C. Argus X C. Niveum*)

The foliage is beautifully tessellated with deep green on a white ground, 4½ inches long by 1½ broad; flower scape a foot high, bearing two flowers each 4½ inches across; the concaved dorsal sepal is white, veined with pale green and tinged with vinous purple; petals 1 inch broad, rich vinous purple shading to white near base, where it is veined with pale green, the whole dotted with violet purple; pouch contracted at aperture and somewhat inflated below it; the front portion is vinous purple, the balance white with faint green neuration, the infolded lobes and interior dotted with purple; staminode pinkish white with green reticulation. The name is complimentary to Mrs. H. Graves, Orange, N. J. The flower is one of the most beautiful of the concolor section to which it belongs.

ROBERT M. GREV.



CYPRIPEDIUM LEEANUM GIGANTEUM.

Hardy Rhododendrons.

The rhododendron is one of the most beautiful of all our hardy shrubs, and should be planted more extensively than it is, but the trouble has been that planters have purchased imported stock, which have infused in their veins too much of R. ponticum blood, which is not, and never will be hardy in the northern states. After two or three trials growers give them up in disgust. Now to get a perfectly hardy rhododendron we must have a greater preponderence of R. Catawbiense and R. maximum blood, and to this end some of our most successful rhododendron growers have labored for years, trying to get a perfectly hardy rhododendron, one that can be depended on in our northern winters, and now you can get plants that are hardy as an oak. Another point, if generally known, would save planters much expense, and make as fine an effect, when planting large masses of these plants on banks or ravines is to use R. Catawbiense seedlings for the bulk of the masses, and a sprinkling of the named sorts for the highest colors.

In planting rhododendrons it is best where practicable to take a position sheltered from the heavy winds, also bear in mind that they like a little shade, for in their native habitat they are always shaded by trees or rocks. While they will do in dry places they like a moist situation, and grow much freer in it. By moist I do not mean where the water stands on the ground, but on the edges of ponds and streams. One word of advice: don't buy of importers, buy of some good northern firm who make a specialty of these plants. While they like peat or mould they do equally well in any good loamy soil, and the first season should be mulched with any convenient material except manure to keep the roots moist and cool; after that they can take care of themselves.

For the edging or bordering of clumps or masses of the strong growing species the little Alpine rose, Rhododendron ferrugineum is most useful, but have been but little used on account of their scarcity and the high prices that have heretofore been charged for them. The Alpine rhododendrons only grow about two to three feet high, and have small hairy leaves of dark green or bronzy green color, the leaves about the size of those of the box plant, and form dense round bushes, which are a mass of blooms in their season.

R. ferrugineum, Alpine rose, flowers in umbels; in color scarlet marked with yellow dots, corolla funnel shaped. Blooms from May to July. R. ferrugineum albiflorum, the white flowering form, is very handsome; one of the rarer ones. R. ferrugineum arbutifolium is a variety with pink blossoms and small glossy foliage. R. ferrugineum hirsutum is a very dwarf species, never exceeding two feet in height, very dense habit and free flowering. The flowers are pale red or scarlet produced in umbellate corymbs. A very good species for decoration of rock work.

The following are the best of the hardy varieties; all of them have been thoroughly tested in New England for a number of years: Speciosum, light pink; roseum superbum, late, rose; roseum pictum, rose yellow eye; roseum elegans, fine rose.

Purpureum crispum, purple, crimped; purpureum elegans, fine purple; purpureum grandiflorum, large showy purple; Perspicum, clear white, good; Minnie, white, yellow eye, very fine; macranthum, large rose; Lilacina, lilac blush, good; Lee's Dark Purple, very dark purple; Grandiflorum, rosy crimson, extra fine; Album, good, white; Album Elegans, very large white; Album Grandiflorum, white and blush; Chas. Bayley, cherry red very good habit; Giganteum, very large rosy crimson; Delicatissimum, white and blush; Blandyanum, bright cherry; Candidissimum, fine pure white; Amarantinora, light rose, extra good; blandum, white and yellow; Everestianum, rosy lilac, crimped very fine.

In conclusion would say do not try, if you live in a latitude north of Washington, to grow the very fine English hybrids of the Ponticum type, or you are bound to be disappointed, for they have so much Nepaul blood in them that they will succumb to the winter; if they don't go the first they will grow gradually weaker until they die altogether, but get the hybrids of R. maximum and R. Catawbiense and you will succeed in growing this, the most beautiful of all our hardy flowering plants.

JAS. S. TAPLIN.

Hackensack, N. J.

The New Mushroom.

Mr. Chas. Hurn of Scarsdale, N. Y., writes us that he feels morally certain that the new mushroom described by Mr. Wm. Falconer in his essay before the Mass. Hort. Society, from which we printed extracts in our issue of February 22, is the same as one he grew some six years ago and which he obtained through English brick spawn. He was very much afraid of the stranger, though he found by experiment that the mushrooms were not poisonous. It was a very rank grower, and while the variety was not poisonous, he didn't take to it, and most decidedly prefers the old campestris. He saw some of the new mushrooms at the New York Florist Club's exhibition last November, and in them feels sure he recognized his old acquaintance, and questions the statement that it is a new species.

In view of the fact that the whole matter has been thoroughly investigated by Prof. Chas. H. Peck, our leading scientific authority on fungi, who upon careful scientific comparison pronounced it a new species and named it, we feel certain that our correspondent has been misled by a superficial resemblance. Our scientists in literature and herbarium specimens have as ready access to the fungi of England as the botanists in that country have, and as Professor Peck has found this mushroom to be a newly discovered spe-

cies in this country, we may rest assured it has not yet been discovered in Europe, where edible fungi are more generally sought after than here, so the presumption is that it is strictly an American species.

Tip Blight of Ornamental Ferns.

It is no new thing for those who grow ferns under glass, and this includes all who have one or more in the bay window, to complain that their pets become brown at the tips and thereby lose much of their green freshness, or fresh greenness. There may be many causes for this unsightly appearance.

In the first place let it be understood that the tips of plants are the most tender portions. It is there that new growth takes place, and on that account the cell walls are thin and easily influenced by ontoward circumstances. These unfavorable surroundings may be an insufficient water supply at the roots, when the tips of the fern plant will wilt, and if the neglect is prolonged the young part dries out and dies. It may be that some poisonous gas finds its way into the air surrounding the room and thereby the plant is injured. Extremes of heat and cold in like manner may be the means of checking the vital action at the most susceptible point, and as a result the tips of the delicate fern become brown, curl up, or even fall away.

There is still another reason for this injury so often met with, and because none of the above deleterious conditions obtain it is all the more mysterious and difficult to remedy. The germs of low forms of life are probably present in the atmosphere at all times. Being microscopic they pass unheeded, and only their effects are noticed. The various forms of contagious diseases of man as the cholera, yellow fever, consumption and a long list of maladies of domestic animals are due to these germs, which multiplying with great rapidity in the victim cause death. Plants are not exempt from these or similar germs, and show their susceptibility in the various forms of rots, blights, etc., that are constantly met with. Our ornamental ferns do not escape, and the dying of the tips is frequently a case of destruction due to the growth, in the fern frond, of an organism that, acting as a parasite, feeds upon the vital fluids at the centers of life and cause the tips to turn brown and die.

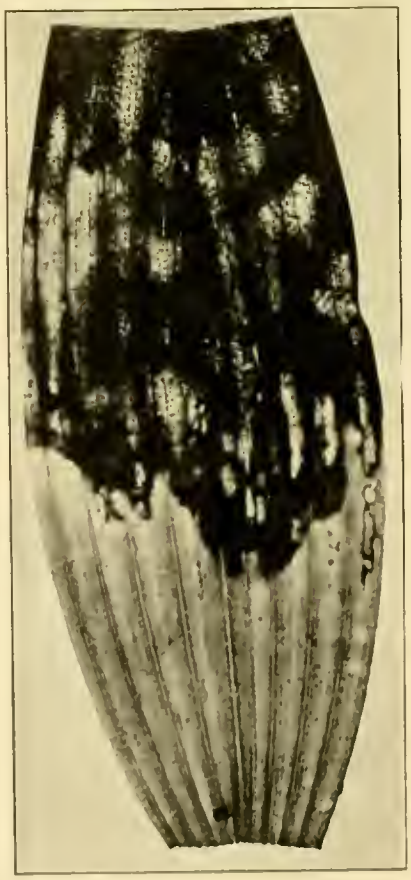
The accompanying engraving is made from a sun print of a portion of a plant of one of the most ornamental of our ferns, namely Pteris cretica var. magnifica. This particular spray was chosen for the picture because it illustrated the dead patches as often being below the tip. As a rule the blight is confined more closely to the tips than in this specimen, and serves a double purpose, namely to show the injured extremities, and how the same fungus may make its attack elsewhere and produce the same results in the older and stronger tissues of the fern frond.

We are now ready to glance at the nature of this microscopic destroyer. It starts from a minute body, the spore, which coming from some blighted spot begins to grow by sending a slender thread into the fern. This spore may be carried by the wind, or perhaps more frequently by the water that flows from a diseased place to a healthy one in the process of watering. No change is seen in the fern for a few days after germination, but all this time the fine threads from the spore have been growing in the substance of the frond. The first thing to be observed in the history of a blight like this one is a loss of the green color in the frond, soon



BLIGHT OF ORNAMENTAL FERNS.

followed by the appearance of the ashy gray spot surrounded by a border that is neither gray nor green, purple or brown. So soon as the light disfiguring spot appears, minute pimples form in the blighted area, and these bear the spores similar to



SOBRALIA LEAF BLIGHT

the one with which we started in our outline of the development of the fungus. These spores are produced by the million in these spores-cavities, and when matured are ready to be borne to new healthy places on the same or a neighboring plant by the currents of air or moving water.

Let it be thoroughly understood that the spots upon the fern, at least like those shown in the engraving, result from the presence and growth of a minute plant. Let it be also remembered that it produces what answers to seeds, that these are microscopic and exceedingly numerous, and are disseminated by means of air and water. It follows therefore from this that a sick plant is a source of infection to its neighbors, and should be either removed or have its blighted portions destroyed.

These spore-like seeds can be killed by contact with certain chemicals known as fungicides. Therefore it is possible to check the spread of the blight fungus by placing a chemical upon the surface of the plant. This can be best done by spraying with some compound of copper, as the Bordeaux mixture, or some other of the standard fungicide solutions. The spraying of healthy plants may prevent the spores already upon the surface from germinating, and a like treatment of spotted plants may kill the spores as they are forming.

It is seen that while the fungous enemies are the most obscure they admit of being known when studied with the compound microscope, and successfully treated to prevent them if the spraying is done thoroughly and promptly when the plants show signs of spotting. There are fungous diseases that when far enough along to show their presence are too far advanced for the application of remedy, the whole plant being sick to the heart. But the blight (Phyllosticta) of the fern is not one of those.

BYRON D. HALSTED.

RUTGERS COLLEGE, March 5, '94.

A Sobralia Leaf Blight.

There are several fungous enemies that prey upon the orchids. Sometimes the pseudo bulbs are attacked and quite large pits are produced in them. Again the foliage suffers greatly as in the bletias and still more general and damaging is a spotting of the blossoms.

The particular trouble to be mentioned here—and one needs to single out some special case when a fungous disease is to be treated, is the one of the sobralia. Not long ago during a run through a commercial greenhouse a number of plants of Sobralia macrantha were found the foliage of which was practically ruined. Specimens when afterward subjected to microscopic examination showed a clear case of the destruction by a fungus.



JOHN A. PETTIGREW.

The blight is due to the inroads made upon the leaf by an anthracnose of the genus Gloeosporium (G. Cinctum, B & C.) This is another case of the fungus most frequently flourishing at or near the free end of the leaf and spreading from them toward the base. The accompanying engraving shows a badly diseased leaf in its middle portion, the upper half or more being ruined by the fungus and the lower portion comparatively healthy while the line of advance of the disease is well defined.

When a sobralia plant bears leaves like the one shown it is evident that no amount of spraying will effect a cure. The spores are being produced in great numbers and carried off with every drop of water that drips from the foliage after watering. In other words such leaves are propagating the disease in a wholesale manner and there are various ways for the germs to find lodgement upon neighboring healthy plants.

Spraying with Bordeaux mixture or other fungicides will assist in preventing the spores from germinating upon healthy plants, but in addition to the spraying the source of infection should be removed. When a plant is badly affected with an anthracnose the fungus is usually spread all through it and not simply in the leaves, and there are many chances against ever saving the plant even by severe pruning. In many cases it would be folly to attempt to propagate from such plants with the hope of getting healthy plants.

BYRON D. HALSTED.

AMSTERDAM, N. Y.—J. C. Hatcher has opened a very handsome store at 33 Market St.

John A. Pettigrew.

We present herewith a portrait of Mr. John A. Pettigrew, under whose superintendency Lincoln Park, Chicago, has acquired a national reputation as an ideal city park.

Mr. Pettigrew was born in England about 50 years ago. He is the son of a gardener and began his own experience in gardening when 10 years of age. At the age of 22 he came to Chicago and for 13 years following he was engaged in the various branches of horticulture, mainly floriculture and landscape work. He then entered the stone business, and contracting, which he followed for a number of years, but returned to his first love again and was soon after appointed superintendent of Lincoln Park, in which position he has made a most enviable record.

His varied experience in all the various branches of horticulture, coupled with a sincere affection for every tree and plant in his charge, his splendid administrative ability, together with his knowledge of landscape architecture as well as gardening, made a rare combination and enabled him to meet with brilliant success every one of the problems that continually present themselves in such a garden as Lincoln Park. Withal he is a gentleman with all that the name implies, a botanist of ability and a close student of all that affects the profession he loves.

Many of those who have visited Lincoln Park will probably be surprised to learn that nearly all its beauties of vegetation are growing in a thin veneer of made soil laid over a waste of sand. Mr. Pettigrew's first work on taking charge of the park was to deepen and strengthen this soil and to his continued efforts in this direction may be attributed the salvation of the park. He it was who added to the park those prime attractions the beautiful ponds of aquatics and the garden of hardy perennials.

His latest work of special note is the treatment of the artificial beach carried out into Lake Michigan along the shore of the park. Along the drive, on the side toward the canal formed between the old shore and the new beach he has filled in with soil in which extensive plantings have been made, with phenominal success considering the artificial conditions that had to be overcome. This triumph of the gardener's art over apparently insurmountable adverse conditions, if properly followed up in the future, will prove a lasting monument to his genius.

But now this man, whose great ability has given him almost a world wide reputation, must leave his work unfinished at the behest of a gang of political heelers who have managed to obtain a strange influence over the governor of Illinois, and despite the vigorous protests of every reputable citizen of Chicago, and the entire daily press of the city regardless of political bias.

It is a sad reflection upon our institutions that the most despicable elements of society can so work upon the ambition of political aspirants as to make them utterly regardless of public opinion and the public weal. From the present state of the public mind there can be no doubt that the governor's act will be most vigorously resented at the next election but in the mean time the harm has been done, an unusually able man has been sacrificed, and some "political engineer," to quote one of the dailies, will have had two years in which to ruin the park.

There is still some slight hope that the storm of indignation from the organs of his own party may make the governor pause but he has now gone so far that there is but little to base hope upon.

New York.

The all-absorbing topic for the present is Easter. Growers, wholesalers, retailers, fakirs, all have their interest and their hopes centered in the coming festival and predictions are as numerous and conflicting as are those preceding election day. One thing all are solicitous about, that is the weather. March came in like a lamb and has behaved in an exceedingly lamb-like manner up to date, and great is the fear that the proverbial lion may assert himself just at the time when he will be least welcome.

From appearances there will be an abundance of stock appropriate for Easter, both plants and cut flowers in quantity enough to supply the demand no matter how heavy. The warm sunny weather has hastened the plants along and those who feared that they might get left on account of the earliness of the date are now assured of having a full supply ready. Ten dollars per hundred on plant or cut is the average price asked in advance by the lily growers.

Violets continue very plenty. There are many more than the market under ordinary conditions can consume. One cannot avoid wondering why some growers persist in growing the white violets for the market. They are and always have been dead stock, lacking entirely the popularity which the purple violet possesses and being salable only on rare special occasions. Like the orange flower they are useful for the local florist to grow in small quantities that he may have them

on hand when occasion requires, but as a crop for the wholesale market nothing could be much more unsatisfactory than the white violet.

Late cypripediums, that is those held on the plants until the present time, also give unpalatable results. They are soft and do not last any time after being brought in. It would have been better to have sold them two months ago even at the lowest figure, for nobody wants them in their present condition. Tulips of the light pink shades both double and single sell fairly well, but these are the only desirable colors and the prices prevailing do not furnish much profit when the first cost of the bulbs and the expenses and loss of forcing are counted.

Persistent efforts to drive the Greeks off the street are still being indulged in by some of the retail florists. Naturally the wholesale dealers do not sympathize with the movement, for were it not for the Greeks it is difficult to imagine what would become of the surplus stock of flowers, in spring time especially. It is doubtful however whether in case these people were removed from the streets the result would benefit the retail florists any as the offensive element would soon find stores and so become more formidable as competitors than they can ever become in the street.

Ernst Asmus made a speech at the Florists' Club meeting which is worthy of record. On being installed as vice-president he responded to repeated calls as follows: "Gentlemen, I think it something unusual to ask a vice-president for a speech. I haven't prepared any, so you won't get any. That's all there is about it."

It is surprising to note how generally the rose growers and carnation growers, especially the latter, are using Mr. Joosten's Fostite for the prevention of insect and fungus pests. A batch of rooted cuttings, nowadays, without a thick sprinkling of this useful powder is a rarity.

Thos. L. Russell, the well-known "Peripatetic" of the *Florists' Exchange* died suddenly on Broadway on the afternoon of March 15. He has been a familiar participant in the Florist Club meetings and other gatherings of the craft in and about New York for the past three years and made many friends. His funeral took place at Brooklyn on Sunday, 18th inst.

The plant auction business was opened in due form for the spring season by August Rolker at his Greenwich street store. The stock consisted of hardy roses, azaleas, and other dormant stuff from Hulsebosch Bros. and others and went for fair prices.

Charlie Schnell, who has been in the employ of Burns & Raynor ever since they began business, has started on his own hook in the retail business at 514 Columbus avenue.

The young men in the store of Thos. Young, Jr. are very enthusiastic over a baseball club which they have organized and propose to give an opportunity to those who wish to cross bats with them at Atlantic City next August.

Robt. B. Young is again quite sick at his home in Brooklyn.

Chicago.

It has been an open secret for some time that the Governor of Illinois had, at the request of a disreputable gang of political heelers in this city, been bringing strong pressure to bear upon the Commissioners of Lincoln Park to force them to displace Superintendent Pettigrew and appoint in his stead a politician who would make a political machine of the force of men employed at the park. It so happened that the Commissioners were men of honor and high standing in the community who would not accede to such a disgraceful demand. They knew Mr. Pettigrew's ability, and they honored him for employing men on their merits and not on the recommendation of pot house politicians. But the governor, who seems of late to have been bereft of reason as well as common sense, has now called for the resignations of three of the commissioners who have resisted his demands, two of whom were his own appointees and belonged to his own political party. He will of course appoint in their places men who will act as puppets in his hands and as soon as the new board is organized the best superintendent Lincoln Park has ever had, and one of the ablest men in such work in this country, will be ousted from a position he has filled with the greatest credit. But the governor's act brought out such a storm of criticism that even he may pause in dismay. It is to the credit of the daily press of this city that every paper, regardless of political bias, poured broadside after broadside of bitter criticism at the governor and the miserable gang back of him. And papers of his own political faith were the most severe in their denunciations. The question is really not political but the issue has been drawn between the reputable and disreputable elements in each of the political parties. The governor cannot be reached as his term runs two years longer, but the man who has been at the bottom of the matter, one H. C. Bartling, has managed to secure the nomination of assessor for North Chicago, from one of the great political parties. He is a dangerous man who will apparently stop at no means to accomplish his purposes. He should be snowed under so deep at the coming election that even he will understand that his methods are repudiated by all decent people.

The market last week was unusually active. The weather has been as bright and warm as is rarely seen in March, and certainly must have aided largely in the production of flowers. But nevertheless stock in some lines was exceedingly scarce, particularly towards the last of the week, a state of affairs certainly gratifying and considering the fact that we are still in Lent it seems all the more remarkable.

There are probably two causes to which may be attributed the scarcity of roses. One is the fact that the plants in a number of the leading establishments are off crop; another is the increased demand on account of the Opera which opened the season last week. So far as is apparent now there will be a rather light cut of roses for Easter for the same reason. But appearances are often deceptive and the shipments from outside points may upset all calculations.

Although no advance in prices for the past week can be noted yet stock ruled firm in most classes at regular quotation figures, and few job lots, unless decidedly "off," could be bought at bargain counters.

Easter prices will take effect March 21. Quotations made by the wholesale men seem reasonable and as a whole lower than in former seasons. Beauties and Hybrids are quoted at 20 to 25, Jacques 18 to 20, Meteors 8 to 10, Mermets, Brides and La France 6 to 7, Niphetos and Gontiers 4 to 5, Perles 5 to 6, carnations long 1.50 to 2, fancy 2.50 to 3, violets 75 to 1.00, Harrisii 8 to 10, callas 6 to 8, Romans and narcissus 2 to 3, valley and tulips 3 to 4, daffs 3, Dutch hyacinths 4 to 6.

As will be seen by the above quotations Harrisii and callas are listed at much lower figures than were ever before made at Easter. It is apparent that commission men still have a lively recollection of the last Easter season when the mistake was made of demanding such high figures that most dealers held off in placing orders ahead. In consequence, as we all recollect, the market went all to smash on Easter Eve, and lilies sold for next to nothing.

OBITUARY.

ROBERT J. HALLIDAY.

Mr. Robt. J. Halliday, the well known florist of Baltimore, Md., died at 8:55 p. m. Sunday, Mar. 11, of catarrh of the stomach, at his home on the Liberty road near the city. His family, with the exception of his son William, who was attending college, were at his bedside, with his life-long friend, Mr. Wm. Fraser.

Mr. Halliday was born in Baltimore on March 4, 1840. His father, Robert Halliday, was a native of Dumfries, Scotland, and came to this country in 1837. Mr. Halliday received a good grammar school education, and at the age of fourteen he started to learn the business under his father, who took him into partnership upon attaining his majority, and he took charge of the large greenhouses then standing at the corner of Pennsylvania avenue and Dolphin street. Under his efficient management the business soon became the largest south of Philadelphia and plants and seeds were shipped all over the country.

His first store was at No. 1½ N. Charles street, which he took in 1870, from which he moved into the corner store in a few years, then into the large building at 10 W. Baltimore street in 1883. After his two eldest sons, Robert and John D., started in the cut flower business for themselves, he moved to 8 S. Charles, and finally in 1892 to the store now occupied, No. 111 N. Charles street.

He was an enthusiast on camellia culture and in 1880 wrote a most valuable compendium of his experience in propagating and cultivating the plant, which was followed in 1882 by an equally thorough and interesting work on the azalea. Personal friends of Mr. Halliday can obtain these works gratis as souvenirs by applying to Messrs. Halliday Bros., 11 E. Baltimore street.

The business at 111 N. Charles will be carried on by his heirs until April 10 next in order to straighten out all matters connected with it.

Mr. Halliday was married three times, first to Miss Christine Dick of Philadelphia in 1863, then to Miss Emma Stewart of the same city in 1875, and last to Miss Mary Stewart, sister of his second wife. He leaves three sons, Robert, aged 29, and John Dick, aged 26, children of his first wife, and William, aged 17, child of his second wife.

Mr. Halliday was a man whom to know intimately was to like. His unfailing kindliness and generosity were the secret of his attractiveness, and his host of friends can testify to the disinterested way in which he ever placed himself at the disposal of anyone seeking his advice or assistance. A true, generous, kindly, whole-hearted Christian gentleman, he lent a dignity and grace to his business. He raised it to a position of importance which it had never before attained here, and in his intercourse with visiting flo-



THE LATE ROBERT J. HALLIDAY.

rists from other cities he showed them the hospitality of our southern life with a geniality and heartiness unrivalled.

Mr. Halliday was a prominent member of the Westminster Presbyterian Church. He was the president of the Gardeners' Club for the first three years of its existence, and but for his courage, patience and generosity it may be doubted whether we would to-day have a horticultural organization of any kind. All who knew him were attached to him, and all will miss him and his influence.

Buffalo.

A view of the stores on the Monday preceding Easter gives one but a poor idea of the gorgeous display that is promised for the end of the week. In addition to the regular stores on Main street there will be a few others doing business for one week's standing. J. Stafflinger has secured the use of a vacant store on Main near Swan street. Mr. Christenson has rented a window of one of our most popular grocers and will doubtless make a big display, as he has the stuff to do it with.

Mr. J. H. Rebstock is rushing the work on his new store and says he will be in there by Thursday. Joseph has just returned from New York where he went to visit some of the big growers and pick up novelties. I could not hear that he saw any novelties and found prices for good plants away up in G. He speaks of the cytisus and azaleas at James Dean's as the finest he ever saw. Mr. Anderson is off for New York and W. J. Palmer, Jr. leaves to-night for the same point, both no doubt to gather in some fine things for Easter. Mr. Anderson says he is going to make a specialty of hybrids and violets.

Palmer's is looking very gay with an enormous quantity of daffs of the finest quality. They are making preparations for a big plant trade. Their large store affords a good opportunity for this line of business. Mr. Stewart will have a large lot of Canadian roses to offer. He is fortunate to have them for they sell on sight. Adams & Nolan are preparing for a big trade. They say carnations will be their specialty. A look in at Scott's store—where old man Mepsted presides—showed us a fine lot of plants of almost all the popular kinds; particularly were his azaleas fine. Mr. M. expressed it as his opinion that stock of all kinds would be none too plentiful and every thing would be bought up close. Mr. Constantine, of Niagara street, is laying in a large supply of plants and thinks nothing will be in too great an abundance except perhaps callas, of which he as well as others in this locality have had great quantities this season. Mr. George Hale under the Genesee Hotel has a very attractive window; he always carries a fine line of carnations, Buttercup being the leading card. He anticipates a good demand both in plants and flowers.

The question being put to each florist, "What are you making a specialty of?" The answer was in nearly every case, "Carnations if I can get enough." This shows how popular we all find this beautiful and inexpensive flower. The millions will ask for carnations while the few ask for roses.

The weather is the all important question. If fine and not windy what a blessing, but if next Saturday assumes a typical March style, cold and breezy, oh my! it will add many grey hairs to some of us who are already bald and white.

Last Tuesday our club elected its new officers and they are as follows: President, W. A. Adams; vice-president, J. W. Constantine; recording secretary, Wm. Scott; financial secretary, Henry Millatt; treasurer, Edward I. Mepsted. After the election we had—well you could not call it a banquet but it was better than that—a most pleasant time. Everybody was called on for a speech and in every case acquitted themselves finely. Of a higher order than is usual on such occasions were the remarks of Wm. McMillan, J. W. Constantine and Prof. Cowell, but they were all good and those who were foolish enough to stop at home or seek more frivolous amusements missed a great treat.

W. S.

St. Louis.

The trade for the past week remained fair. The weather continues warm and springlike, and as a result the plant shipping trade has commenced to boom, all hands being required to keep ahead of the orders. Judging from the way it has opened, the prospects may be said to be brighter for a good shipping season than at any time this year.

Easter stock is in good shape, there being plenty of it on hand at all the growers; if anything it is a trifle early, owing to the unprecedently favorable weather, and the prospects are that the demand for it will be fully up to expectations. But flowers are also in good supply, and can undoubtedly be had in sufficient quantities to satisfy buyers. The fact that there will be an increasing demand is proven by several heavy orders that have been placed.

The Jordan Floral Co. have commenced cutting from one of their Jack houses, and during the week have shown some elegant flowers; they will keep it up through Easter time, and on into the spring.

The refreshments provided by the Bowling Club for the working members at the last two meetings have proved such a good thing that the members are more than ever satisfied with the Club.

R. F. T.

Correction.

In Mr. Robinson's essay on progress in orchid culture in our last issue a typographical error in the third paragraph, second column on page 726 made him say "Mrs. Ames' collection (of masdevallias) to-day comprises more than one hundred varieties exclusive of our own *houses*," when it should have read "exclusive of our own *hybrids*."

SOME DAYBREAK CARNATIONS recently sent by Mrs. J. D. Knox, Butte, Montana, arrived in excellent condition, and were of good quality. Evidently Montana intends to keep up with the floral procession.

THE UNIVERSAL EXPOSITION of Lyons, France, calls attention, by a notice recently received, to the competition in the horticultural section, which will extend through the entire season, beginning May 1. Intending exhibitors are requested to address Exposition Universelle, Lyons, France.

THE PENNA. HORTICULTURAL SOCIETY has issued the premium list for their chrysanthemum show, which opens Nov. 6 next, continuing four days. Among the plant prizes is $100 for collection of 10 plants, 10 varieties, $25 for collection of new varieties, not disseminated prior to 1894, and $10 for best specimen plant, new variety. There are seven special prizes of $25 each, two of $50, and two silver cups, in addition to the usual list for roses, carnations, plants, designs and decorations.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As all round florist; growing roses, carnations, general stock, ferns, palms, etc.; 15 years' experience. R S, care Am. Florist.

SITUATION WANTED—By first-class rose grower, Pacific coast preferred; references; also from present employer. Box 125, care American Florist.

SITUATION WANTED—By a young man 26, as greenhouse assistant, 4 years experience; good references as to character and reliability. Address ERNEST, Louisville, Ky.

SITUATION WANTED—By a young woman in florist's establishment, has some experience in making up and arranging flowers. Address FLORAL, care M. J. Lynch, Poughkeepsie, N. Y.

SITUATION WANTED—By a young single German, 8 years' experience; either in cut flowers or catalogue trade. Good references on hand. Address H B, care American Florist, Chicago.

SITUATION WANTED—As gardener and florist in private place; French; 8 years in this country, steady, sober and honest. Good references. FLORIST, box 134, Bay Side, L. I., N. Y.

SITUATION WANTED—By a good all round florist, as assistant or foreman, successful grower of plants and cut flowers; good recommendation. Address ROSE, care American Florist.

SITUATION WANTED—By good grower of roses, carnations, violets, etc., as working foreman; 14 years experience, age 30, married; best of references. Address K G, care American Florist.

SITUATION WANTED—By Dane, to work in greenhouses. Best references from Denmark and this country. New York or New Jersey preferred. Address NISSEN, 230 Division St., New York City.

SITUATION WANTED—Gardener, single man having 13 years' experience, well posted in growing orchids, ferns, palms, etc. Private or commercial. Address A D, Penn St., Frankford, Philadelphia.

SITUATION WANTED—By first-class gardener, to take charge of private place in or near Chicago; will be open for engagement by April 1st. Best references from present employer furnished. Address C W, care American Florist.

SITUATION WANTED—By practical grower of roses, carnations and general stock, life experience in all branches, single, age 27, sober and steady; good recommendations; state wages. Address ALBA, care American Florist.

SITUATION WANTED—As manager, foreman, or headgardener in commercial or private place; German; thoroughly experienced in florist and horticulture; honest, sober and good worker. Good references. R H, care American Florist

SITUATION WANTED—By a successful grower of cut flowers and plants, 15 years practical experience in all branches, intelligent, honest, strictly sober, single, age 27, 2 wks; good recommendation; state wages. Address FLORIST, Box 625, Batavia, Ill.

SITUATION WANTED—By an energetic, first class single man, as foreman; thorough experience in all branches. Specialist in rose and cut flower growing. Best references. Ready for engagement at any time desired till July 1st. Please address AM. BEAUTY, care American Florist.

SITUATION WANTED—By April, in good private or commercial place, by competent German gardener and florist, single, middle aged, understands all kinds of outside and greenhouse work, including propagating and forcing. Address H. SCHARF, 625 Clybourn Avenue, Chicago, Ill.

SITUATION WANTED—By a German, competent first class florist, single, 35 years old, over 20 years experience, 10 years in U. S., asks a good and steady place as foreman in a commercial place, no private, to grow successfully florist stock; best of references. Address G. A. CLARK, Station M. N. E., Washington, D. C.

WANTED—A No. 1 rose grower, write stating terms with references. J. care J. C. Vaughan, Chicago.

WANTED—Gardener, single who understands raising vegetables for market; give references, state wages. MRS. T. STEARMAN, Mt. Vernon, O.

WANTED—A single German gardener for vegetable and flower garden work, good wages and board. Address UPPER PENINSULA BREWING CO., Marquette, Mich.

WANTED—An assistant well up in greenhouse work; some experience in bedding out; state wages expected with board. JOHN RECK, Bridgeport, Conn.

WANTED TO RENT—A place, from 8,000 to 10,000 feet of glass, with or without stock, hot water heating preferred. Address C W, care Greenhouses, 4th Ave. and 17th St., Minneapolis, Minn.

WANTED—A first-class working foreman to take charge of 20,000 feet of glass, and grow roses, carnations and general stock. Applicants please forward references, and state wages expected. W. L. MORRIS, Des Moines, Iowa.

WANTED—An orchid, palm, fern and stove plant grower; one who is sober, well up in the business, and will attend to his own department, and not in any way interfere with men in other departments. I want a reliable man—none other need apply. R. J. MENDENHALL, Minneapolis, Minn.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man. WILFRED A. BROTHERTON, Rochester, Mich.

WANTED—Before June 1st, thoroughly competent man, as foreman in a large establishment; must thoroughly understand the growing for cut flowers of roses, carnations and chrysanthemums, also bedding plants and ordinary nursery stock. To the right man a good position at good wages is offered with the chance of future advancement. None but first-class men need apply. Correspondence solicited. Address ROSE GROWER, care Box 47, Mt. Vernon, N. Y.

FOR SALE OR TO LET—A valuable florist business. For particulars address JACOB MENDEL, Lock Box 59, Nyack, N. Y.

FOR SALE—One Kroeschell hot water boiler 4x12; 4 years in use. Also about 4000 feet 4-inch pipe. ART FLORAL CO., 3911 Cottage Grove Ave., Chicago

FOR SALE OR RENT—Greenhouse located at end of the Chicago Lake Shore Electric R. R., Evanston, Ill. Address W. J. DOWNES, Evanston, Ill.

FOR SALE—Four greenhouses, well stocked, with very valuable piece of ground, reason for selling old age. Address WM. SPRINGBORN, Dubuque, Ia.

FOR SALE—A well established seed and hardware business near Chicago, doing a gardener's and local trade of about $20,000 per year. Cause ill health. Address M. HERMES, Havelock, Ill.

FOR SALE—Desiring to move at once on account of ill health of wife will sell at a sacrifice an establishment and paying florist business well worth $3,000. Address CENTRAL, care American Florist.

FOR SALE—Three greenhouses, with stock, etc., heated by steam, situated in a growing town in Central Ohio, with population of 18,000; business established in 1889; no other florist in town. Price low to quick buyer. Address P J, care American Florist.

UNIONTOWN, PA., March 19, 1894.

Notice is hereby given that the partnership lately subsisting between Henry Hughes and Charles E. Stenson, of Uniontown, Pa., under the firm name of Hughes & Stenson, Florists, was dissolved on the 13th day of March, 1894, by mutual consent. All debts owing to the said partnership are to be received by the said Henry Hughes, and all demands on the said partnership are to be settled and paid by him. The said business will be continued at the same places as heretofore by said Hughes. HENRY HUGHES. CHARLES E. STENSON.

WANTED

A few plants of Water Snowflake. Address with price, VAUGHAN'S SEED STORE, 146 and 148 W. Washington St., Chicago.

FOR LEASE.

The greenhouse property in Westwood, near Cincinnati, now occupied and running very successfully by J. Peterson, consisting of greenhouses 120x120 feet, a 5-room dwelling, and three or more acres of land; will be for lease on June 1st, 1894. Favorable arrangement can be made with present occupant for part of the stock if desired. Address, with reference, JOHN M. MILLER, Westwood, O.

READY FOR BUSINESS

Make known your wants and we will be pleased to quote prices.

CATALOGUES NOW READY. . .

W. A. MANDA,

The Universal Horticultural Establishment,

SOUTH ORANGE, N. J.

Mention American Florist.

ROOTED CUTTINGS.

Chrysanthemums AND Carnations.

Write for list and prices. Prices to suit the times.

Address J. G. BURROW, Fishkill, N. Y.

Chrysanthemums.



All the Prize... Winning, New and Old Varieties.

SEND FOR PRICE LIST.

Swainsona.



A FEW EXTRA STRONG BLOOMING PLANTS IN 6-INCH POTS, 3 TO 4 FT. HIGH.

$1.50 each; $12 per doz.
4-inch Pot Plants, $3.00 per doz.
2-inch " $1.00 per doz.; $6.00 per 100.

PALMS.

All the popular sorts. A few very fine plants of

Phoenix Rupicola

Suitable for center of large vases, $4.00 each $40.00 per doz.

EDWIN LONSDALE,

Chestnut Hill, PHILADELPHIA.

Money Order Office, Station H, Phila.

BARGAINS.

CANNA MME. CROZY, started plants, $1 per doz.
CHRYSANTHEMUMS, nice young plants, including some of the newer varieties, my selection, $2.50 per 100.
FUCHSIAS, healthy vigorous young plants, from 2-inch pots. Splendid list of varieties, my selection, $2.50 per 100.
GERANIUMS, large assortment, my selection, $3.00 per 100.
CARNATION, entirely free from disease. One hundred in assorted colors, my selection for $2.50.
PANSIES, from finest seed to be had; $2.00 per 100.
BEGONIAS, fine assortment, 2-inch, my selection, $3.00 per 100.
ALYSSUM COMPACTUM, $2.00 per 100; strong, 2-in.
DUSTY MILLERS (Centaurea Gymnocarpa), $2.00 per 100 for strong 2-inch.
ENGLISH IVY, 2-inch, $3.00 per 100.
Any of the above plants 25 at the 100 rate.

N. S. GRIFFITH, Independence, Mo

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

Mention American Florist.

New, Rare and Beautiful Plants.

A large collection of choice Hothouse and Greenhouse Plants, carefully grown, at low rates.

RARE AND BEAUTIFUL EVERGREENS, ORNAMENTAL TREES, SHRUBS, &c.

ORCHIDS.—A very extensive stock; East Indian, Northern, Central and South American, etc.

PAEONIES.—A collection of the finest in cultivation.

Hardy Perennials, Phloxes, Japanese Iris, Roses, Clematis, etc. New and Standard Fruits, etc.

☞ Catalogues on application.

JOHN SAUL, Washington, D. C.

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INCORPORATED 1893. CAPITAL STOCK $10,000.

FLINT KENNICOTT, President. FRED. W. H. SUNDMACHER, Sec'y and Treas.

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CUT FLOWERS,

34 & 36 Randolph St., CHICAGO.

LARGEST WHOLESALE CUT FLOWER ESTABLISHMENT IN THE WEST. THE VERY BEST FACILITIES FOR HANDLING CUT FLOWERS SO AS TO REACH CUSTOMERS IN PERFECT CONDITION.

WIRE WORK A SPECIALTY.

FLORISTS VISITING CHICAGO **Are cordially invited to make our establishment their Headquarters while in this city. . . .**

Peter Reinberg. **George Reinberg.**

REINBERG BROS.

Wholesale Florists and Growers,

PHONE MAIN, 4937. 51 Wabash Avenue, CHICAGO.

Our Great Specialty:

THE AMERICAN BEAUTY.

We had to refuse hundreds of orders this season for American Beauties; this has encouraged us to such an extent that we have arranged to grow more than double the amount next season. We invite all customers who want Beauties next season to remember that we have them.

Don't forget that we have a large supply of fine Roses and Carnations. We shall grow in addition to our large assortment of Roses, Bridesmaid, Testout, Kaiserin and Meteor. We are prepared to fill your orders with first-class Flowers of all the leading varieties of Roses, Carnations, Violets and miscellaneous Flowers. Give us a trial order.

WE ARE NOW OFFERING ROOTED CUTTINGS OF ROSES AND CARNATIONS. SEE AD. ELSEWHERE FOR PRICES.

FLOWER SEEDS.

We have a complete stock of fresh and reliable Flower Seeds on hand, of a quality that cannot be excelled, and at prices that will compare favorably with those of other reliable houses.

We will allow a special discount of 10 per cent on all Flower Seed orders, mailed to us before April 1st, if you mention having seen our ad. in the spring issue of the American Florist.

Sweet Peas.	lb.	¼ lb.	oz.
Alba Magnifica,	$1.25	35c	15c
Boreatton,	.85	25c	10c
Captain of the Blues,	1.50	40c	15c
Duchess of Edinburgh,	.75	25c	10c
Emily Henderson (sealed packets),			50c
Isa Eckford,	.85	25c	10c
Miss Blanche Ferry,	.65	20c	10c
Mrs. Gladstone,	1.50	40c	15c
Miss Hunt,	1.50	40c	15c
Mrs. Sankey,			
Nellie Jaynes,	.85	25c	10c
Queen of England,	1.25	35c	15c
Scarlet Invincible,	1.00	30c	10c
Large Flowering Mixed,	.75	20c	10c

	Per oz.	Per Trd. Pkt.
Aster Improved Victoria. White, Rose, Light Blue, Dark Blue, Carmine.		
Rose, dark crimson.	$3.50	25c
Finest Mixed.	3.00	25c
Truffaut's Pæony Perfection Aster. Pure White, Rose, Gravelotte, Light Blue, Dark Blue, Dark Crimson, La Superbe,	2.50	25c
Mixed Colors,	2.00	20c

Balsam. Improved Double Camellia-Flowered.		
Pure White,	1.00	20c
Separate Colors,	.60	10c
Carnation. Margaret,	.60	5c
Margaret White,	.75	25c
Celosia. President Thiers,		25c
Cobea. Scandens,	.60	15c
Convolvulus. Major,	.10	5c
Cosmos. All colors mixed,	.60	10c
Forget-Me-Not. Dissitiflora,		25c
Victoria,		25c
Gypsophila. Paniculata,	.20	5c
Humulus. Japanicus,	.35	10c
Ice Plant. Mesembryanthemum Crystallinum,	.25	5c
Maurandia. Mixed,	1.50	20c
Poppy. Papaver.		
Cardinal Poppy,		25c
Tulip Poppy,		25c
Shirley Poppy,	.50	10c
Pyrethrum. Aureum,	.60	10c
Petunia.		
Sgl. Grandiflora Fimbriata,	.50	10c
Dbl. Barnard's Florists' Mixture of Double Sorts,		50c
Phlox.		
Phlox Drummondi Grandiflora,	.75	10c
Grandiflora Compacta Nana.		
Cuspidata (New Star Phloxes),		
Scabiosa. Candidissima,	.20	5c
Zinnia. Large flowering dwarf varieties,	1.00	25c

SPRING BULBS AND ROOTS.

We invite special attention to our large stock o Spring Bulbs. If large quantities are wanted please write for special prices and samples.

Tuberoses.	Per 100.	Per 1,000
Extra fine, well-cured Bulbs.		
Dwarf Double Pearl. True stock,	$1.15	$8.50
Double Tall Italian. True stock,	1.15	8.50

Caladium Esculentum.	Per doz.	Per 100
First size. 1½ to 2½ in. in diameter,	$0.50	$ 3.50
Second size. 2½ to 3 in. " "	1.00	7.00
Third size, 3 to 4 inches " "	1.50	10.00
Monster size. 4 to 6 in. " "	2.50	18.00

Gladioli.	Per 100	Per 1,000
Light and white. For florists,	$2.75	$25.00
Light colors. No scarlet or solid dark colors,	2.00	17.50
Pink. Good shades,	1.75	15.00
Striped and variegated,	2.50	22.50
Yellow. Very best shades.	3.50	30.00
Red and scarlet,	1.15	9.00
Superfine mixed. A splendid mixture for bedding,	1.25	12.00
Good mixed,	1.00	9.00

Begonias. Tuberous Rooted.	Per doz.	Per 100
Single. Colors separate,	$0.85	$ 6.50
" Finest mixture,	.85	6.00
Double. Choice colors, mixed,	2.00	12.00

Write for contract prices on stock for Fall delivery.

Lilies.	Per doz.	Per 100.
Auratum. (Gold-banded Lily of Japan.)		
7 to 9 inches,	$1.00	$6.50
9 to 11 inches,	1.25	8.50
Rubrum. Rose, spotted with crimson,	1.15	8.50
Album. Pure white; fragrant,	1.25	9.00
Album Præcox. White, slightly rose tinted; perfectly hardy,	3.00	20.00
Hyacinthus Candicans,	.35	2.75
Madeira Vine,	.25	2.00
Milla Biflora. Waxy-white, star shaped flowers,	.60	3.50

SEASONABLE SUNDRIES.

Sphagnum Moss. $1.25 per bale; 5 bales for $6.00.
Labels, 4 inches. Painted. 10,000, $6.00; per 1,000, 70c.
Labels, 6 inches. Painted. $1.20 per 1,000.
Tree Labels, 3½ inches. Notched, brass wired, 75c per 1,000.
Rubber Hose. Our own brand manufactured purposely for florist trade. Per 50 feet, $6.50.
Whale Oil Soap. 2 lbs., 25c.; 5 lb. box, 50c.
Tobacco Soap. 1 lb., 40c.
Tobacco Stems. Per barrel, $1.00; per bale of about 100 lbs., $2.00.
Paris Green. In liquid form. 1 lb. cans, 25c.
Fir Tree Oil. Pint, 60c.; quart, $1.00; gallon, $3.25.
Copperdine. 1 gallon jug, $1.50.

Lawn Grass Seed.

Barnard's "Perpetual Green," ½-lb. boxes $9.00 per 100; 1-lb. boxes $18.00 per 100; per bushel of 14 lbs. $2.00.

fBone Meal. Warranted pure. Per bag of 200 lbs. $4.00.
Horn Shavings. Fine grade $3.50 per 100 lbs. Coarse grade $3.00 per 100 lbs.
Lawn Fertilizer, $3.00 per 100.
Bowker's Plant Food. Small packages $1.15 per dozen. Large packages $2.15 per dozen.

ROSES, CLIMBERS, ETC.

Clematis.

Extra strong and healthy plants.

	Per doz.	Per 100.
Jackmani. 3-year-old plants; very fine,	$4.75	$37.50
Standishi. Light mauve purple, early flowering variety; 3 years old,		
Flamula. White; fragrant,		
Henryi. Large, finely formed, white flowers; extra strong.		
Lawsoniana. Rosy purple; 3 yrs. old,		
Mrs. Bateman. Pale lavender; fine,	4.50	
Sieboldi. Lavender color; extra strong,	4.50	
Lanuginosa Candida. Tinted grayish white; fine; 3 years old,	6.00	

Ampelopsis Veitchi.		
First Size, 2 year old plants.	1.50	10.00
Extra strong, 4 year old.	3.50	
Hydrangea Paniculata Grandiflora. 24 to 30 inches.	1.50	12.00
Hollyhocks. Colors separate; extra nice and strong roots, raised from Chater's superb strain.	1.25	9.00
Dielytra Spectabilis. (Bleeding Heart.) Strong roots, in prime condition,	.75	5.00
Pæonies. Assorted. Equal quantities of each color,	2.00	15.00

Hybrid Perpetual Roses.

We import this stock in immense quantities from Europe, and our goods have always given the very best of satisfaction.

2-year-old budded, fine dormant stock. Ready April 1st. Assorted, $1.75 per dozen; $10.50 per 100.

Mme. Plantier. Extra strong, 2-year-old, own roots,	$9.00
Climbing Roses. Assorted varieties.	
Baltimore Belle, Gem of the Prairie, Queen of the Prairie,	$2.00 11.00
Moss Roses. Assorted,	2.00 11.00
Tree Roses. 5 feet, clean stems, strong, healthy plants, 65c each,	6.00 45.00

ADVANCE CONTRACTS FOR BULBS.

Romans, Harrisii, Freesia, Van Sion, Dutch Hyacinths, Tulips, Valleys, Azalea Indica.

We are ready now to make lowest prices on contracts for Fall Bulbs for forcing. Please get our figures before you place your order elsewhere. The quality of our stock is top notch, and prices will be found exceedingly favorable this season.

W. W. BARNARD & CO.,

SUCCESSORS TO HIRAM SIBLEY & CO.

GROWERS, DEALERS AND IMPORTERS,

6 AND 8 NORTH CLARK ST., CHICAGO.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

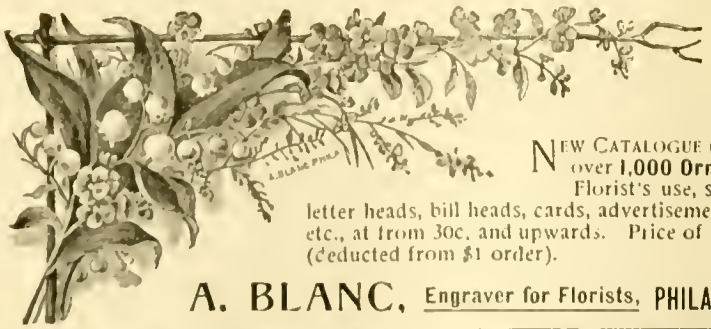
Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS SUITABLE FOR THE TRADE

The Leading kinds for cut flower purposes.

I. FORSTERMAN,
NEWTOWN, L. I., N. Y.



NEW CATALOGUE (No. 4), containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill heads, cards, advertisements, floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from $1 order).

A. BLANC, Engraver for Florists, PHILADELPHIA, PA.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 26 Greenwich St., New York City.

WHY NOT TRY

A FEW ORCHIDS?

They are Very Cheap. They are Easily Grown. They Sell Well.
They always attract attention in store or greenhouse.

BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

PROMPT ATTENTION

Given to all orders large and small.

Florists' Supplies furnished on short notice.

A. PANDALL
WHOLESALE
FLORIST

My aim is to give complete satisfaction, both in quality of stock and promptness in filling orders. Long distance shipments made with absolute safety.

126 DEARBORN STREET.
TELEPHONE, 1496.

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CORBREY & McKELLAR,

WHOLESALE COMMISSION FLORISTS

ALL TELEGRAPH, MAIL AND TELEPHONE ORDERS
GIVEN PROMPT ATTENTION.

Telephone, Main 4508. 45 Lake Street,

CHICAGO.

SPECIAL FOR EASTER:

Fine Harrisii Lilies, carefully packed, - per 100 $ 8.00
500, $30.00; 1000, $50.00.

WE CAN SUPPLY THESE ON SHORT NOTICE.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to these lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Decision About Duty on Plants.

ROSE PLANTS, GLADIOLI, AND PINKS.

Before the U. S. General Appraisers at New York, January 23, 1894.

In the matter of the protest 21874 *b*-2. of J. M. Bonnott, against the decision of the collector of customs at Norfolk, Va., as to the rate and amount of duties chargeable on certain gladioli and pinks, imported per *Moravia*, January 15, 1894.

Opinion by LUNT. *General Appraiser.*

We find—

(1) That Mr. J. M. Bonnott imported into the port of Norfolk, January 15, 1894, certain merchandise which was assessed for duty as nursery stock at 20 per cent ad valorem under paragraph 282, N. T., and which is claimed to be free under paragraph 666.

(2) That the merchandise consists of rose plants or bushes, gladioli, and pinks.

(3) That the roses and pinks are chiefly used in the United States for forcing under glass for cut flowers, and the gladioli are not, but are bulbous roots not edible.

Inasmuch as the importer has not claimed the gladioli to be free under the paragraph applicable thereto, his claim as to the same is overruled, but we hold the roses and pinks to be entitled to free entry under the paragraph specified, and sustain the protest as to these items.

Asparagus Plumosus Turning Yellow.

I would like to inquire the cause and remedy of the turning yellow of foliage of Asparagus plumosus. A. R. SMITH.

LITTLETON, N. H.

We referred your inquiry to Mr. W. H. Elliott of Brighton, Mass., who answers: "It probably turns yellow from the soil being too heavy and wet. The remedy would be to give it a light soil and less water."

Always mention the American Florist when writing to advertisers.

CYCLAMEM. GIGANTEUM. Now is the right time to sow CYCLAMEN SEEDS to have them flower next winter. I have a choice strain imported from a celebrated English specialist. All colors mixed, large and very rich. $9.00 per 1,000 Seeds. 1.00 per 100 Seeds. G. C. WATSON, 1025 Arch St. Phila., Pa.

WHITE GLADIOLI. SUPERB XX MIXTURE Also Begonias, Lilies, Gloxinias, Irises, Cannas, and many other rare and beautiful summer-flowering Bulbs. Start them now. Price List free. Prices right.

for Florists (containing 10 per cent of the new Snow White), $3.50 per 100.

MUSHROOMS. Most delicious of all esculents. "The Why, When, Where and How of Mushroom Culture." 24 pp., 10c. "W. P." Brand MUSHROOM SPAWN. Always reliable. Fresh and Well-Spawned. Send for price list.

PERUVIAN GUANO. Genuine "Lobos" from So. America. Indispensable to Gardeners who desire the highest perfection in bloom. Direct importation from So. America now to hand. Note the price, only $3.25 per 100 lb (bags average 228 lb each). No less than 1 bag sold. 10 per cent off in 5-bag lots.

G. C. WATSON, 1025 ARCH ST., PHILA., PA.

Samuel S. Pennock,

WHOLESALE

FLORIST,

Rear 42 South 16th Street,

PHILADELPHIA, PA.

GEORGE A. SUTHERLAND,

SUCCESSOR TO

PECK & SUTHERLAND,

Successors to WM. J. STEWART,

CUT FLOWERS

and Florists' Supplies.

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67 Bromfield St., BOSTON, MASS.

New England Agent for the GREAT ANTIPEST.

WELCH BROS.,

Wholesale Florists,

NO. 2 BEACON STREET,

Near Tremont St., BOSTON, MASS.

Wholesale Florists

The LaRoche & Stahl Flower Co. Limited.

N. E. CORNER 13th & Chestnut Sts.

PHILADELPHIA.

H. L. SUNDERBRUCH,

Wholesale Florist

4TH AND WALNUT STREETS,

Cincinnati, O.

DAN'L B. LONG,

WHOLESALE CUT FLOWERS,

495 Washington St., BUFFALO, N. Y.

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OTHER SPECIALTIES:

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Cut Flowers AND Florists' Supplies

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St. Louis, Mo.

C. A. KUEHN,

(Successor to ELLISON & KUEHN),

WHOLESALE

FLORIST,

1122 PINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

Asparagus Plumosus Nanus. . . .

Indispensable for fine decorative work.

First-class work can only be done with first-class material.

I can furnish it in large or small quantities.

Cut Strings 8 to 12 feet long 50 cents.

Can be shipped to any part of the country in perfect condition.

Order by Mail, Telegraph or Telephone.

W. H. ELLIOTT, Brighton, Mass.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.
WHOLESALE CUT FLOWERS.
SEEDS, BULBS AND ALL FLORISTS' SUPPLIES.
Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H. SUNDMACHER, Sec'y and Treas.
Kennicott Bros. Co.
34 & 36 RANDOLPH STREET, CHICAGO.
WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.
WIRE WORK A SPECIALTY.
General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
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126 Dearborn St., CHICAGO.
Agent for finest grades Waxed and Tissue Papers.

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Special attention given to shipping orders.

MONS. OLSEN. HORACE R. HUGHES.
Olsen & Hughes,
WHOLESALE CUT FLOWERS,
66 Wabash Ave., CHICAGO.
Tel. Main 4786. Consignments Solicited.

JOHN YOUNG,
Wholesale Florist,
53 West 30th Street, NEW YORK.
☞ Send for quotations on Choice Stock.

WHOLESALE FLORISTS
JOBBERS IN FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
1 Music Hall Place, BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.

LET US book your order now for a copy of our new trade directory and reference book to be issued this month. Price $2.

Wholesale Markets.

Cut Flowers

NEW YORK. Mar. 19.

Roses, Perle, Cusin, Watteville	2.00@ 4.00
" Meteor, Mermet, Bride	3.00@ 5.00
" La France, Bridesmaid	3.00@ 6.00
" Beauty	5.00@40.00
" Hybrids	5.00@25.00
" Jacq	3.00@10.00
Carnations	.75@ 2.00
Mignonette	2.00@ 8.00
Violets	.35@ .75
Hyacinths, Valley	1.00@ 2.00
Daffodils, Tulips	2.00@ 3.00
Harrisii	3.00@ 6.00
Smilax	6.00@12.00
Adiantum	1.00
Lilacs, per bunch	.50@$1.00

BOSTON. Mar. 19.

Roses, Niphetos	3.00
" Gontier	4.00
" Perle, Sunset	5.00@ 6.00
" Bride, Mermet	6.00@12.00
" American Beauty	6.00@40.00
Carnations	2.00@ 3.00
" fancy	3.00@ 4.00
Lily of the valley	1.00@ 3.00
Roman Hyacinths, Freesia	1.00@ 1.50
Trumpet narcissus, Daffodils	2.00@ 3.00
Callas, Harrisii	6.00@ 8.00
Mignonette	2.00@ 4.00
Violets	50@ .75
Pansies, Myosotis	1.00
Tulips	2.00@ 5.00
Adiantum	1.00
Smilax	12.50
Asparagus	50.00
Erica, per bunch	50c
Primroses, per bunch	15c

PHILADELPHIA. Mar. 19.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watteville, Hoste	3.00@ 4.00
" Bride, Mermet, La France	4.00@ 6.00
" Kaiserin, Bridesmaid, Testout	6.00@ 8.00
" Belle, Beauty	10.00@20.00
" Laings	20.00@25.00
" Brunner	25.00@35.00
" Jacqs	12.50
Carnations, H. Keller	6.00
" Ophelia, Sweetbrier, Daybreak	2.00
" Edna Craig	2.00@ 3.00
" good assorted	1.00@ 1.50
" good per 1000	7.50@10.00
Valley	2.00@ 3.00
Romans, Paper white	2.00@ 3.00
Daffodils	3.00@ 4.00
Smilax	12.00@15.00
Adiantum	1.00@ 1.50
Violets	.50@ 1.00
Mignonette	1.50@ 2.00
Asparagus	50.00@75.00
Harrisii lilies	8.00@10.00
Callas	6.00@ 8.00
Freesia	1.00@ 1.50
Tulips	4.00@ 5.00
Cattleyas	40.00
Orchids	15.00@40.40

CHICAGO. Mar. 21.
ADVANCE EASTER QUOTATIONS.

Roses, Beauty, Hybrids	20.00@25.00
" Jacqs	18 00@20.00
" Meteor	8.00@10.00
" Bride, Mermet, La France	6.00@ 7.00
" Niphetos, Gontier	4.00@ 5.00
" Perle	5.00@ 6.00
Carnations, long	1.50@ 2.00
" fancy	2.50@ 3.00
Violets	.75@ 1.00
Harrisii	8.00@10.00
Callas	6.00@ 8 00
Romans, narcissus	2.00@ 3.00
Valley, Tulips	3.00@ 4 00
Dutch hyacinths	4.00@ 6.00
Smilax	10.00@15 00
Asparagus	50.00

CINCINNATI. Mar. 17.

Roses, Beauty	10.00@35 00
" Mermet, Bride	4.00@ 6 00
" Testout	8.00
" Perle	3.00@ 4 00
Carnations	1.00@ 3.00
Tulips	3.00@ 4.00
Narcissus	3.00
Daffodils	2.00@ 3 00
Valley	3 00
Romans	2 00
Violets	.75@ 1.00
Callas, Harrisii	8.00
Pansies	.75@ 1.00
Smilax	10.00@15.00
Adiantum	1.00

ST. LOUIS, Mar. 17.

Roses, Perles, Niphetos, Wootton	3.00@ 4.00
" Bride, Mermet, Bridesmaid, Meteors	4.00@ 6.00
" Watteville, Hoste, Cusin	3.00@ 5.00
" La France, Albany	3.00@ 4.00
" Beauty	5.00@35.00
Carnations, long	1.00@ 2.00
" fancy	1.50@ 2.50
" short	1.00
Valley	3.00@ 4.00
Romans, Narcissus	2.00@ 3.00
Tulips	2.00@ 3.00
Daffodils	1.00@ 4.00
Violets	.25@ 1.50
Harrisii, Callas	3.00@ 8.00
Mignonette	1.50@ 2.00
Smilax	15.00
Adiantum	1.25
Galax leaves	2.00

BUFFALO, Mar. 19.
EASTER PRICES.

Roses, Beauties	20.00@40.00
" Jacqs	15.00@20.00
" Brunners	12 50@20.00
" Mermet, Bride	8.00@12.00
" Meteor	10.00@20.00
" Gontier, Perle, Cusin, Hoste	7.00@10.00
Carnations, long	2.00@ 3.00
" Daybreak and Wm. Scott	3.00@4.00
Tulips, Daffodils	3.00@ 4.00
Romans, Narcissus	2.50@ 3.00
Valley	3.00@ 5.00
Violets	1.00@ 1.50
Pansies, Forget-me-not	1.00@ 1.50
Callas	12.00@15 00
Harrisii, Longiflorum	12.00@18.00

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers
OUR SPECIALTIES:
AMERICAN BEAUTIES, METEORS, BRIDESMAIDS.

CUT FLOWERS.
ROSES, standard varieties and novelties.
Carnations, all the new sorts in finest quality.
VIOLETS, MIGNONETTE AND VALLEY.
FIRST QUALITY STOCK. WHOLESALE ONLY.
THOS. YOUNG, JR.,
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FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

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The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

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BRANCH: Cut Flower Exchange, 408 E. 34th Street.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, at Toronto, Ont.

Notes.

At Detroit the seed trade complain of poor business during the last of February, but state that the first third of March more than makes up the difference. The local trade are indulging in some competition for the market garden business.

At Indianapolis the dealers are rushed. They claim trade more than double last year up to date and appearances bear out their claim.

At Cincinnati trade was fully up to last year in the retail business and considerably ahead in bulk department. Plenty of onion sets in the hands of farmers, but dealers short and buying only when needed.

At Rochester the trade was never so good before. Stock is becoming rapidly depleted and anxiety expressed as to where they can be renewed. Commission concerns are closing their northern shipments and working into the night to do it. Last season's commission sales were the best ever known. Briggs Bros. & Co. have opened a fine retail store next to Crosman Bros. on Clinton St., making quite a seed center there, as Vick's retail store is around the corner on Main St. Mr. Chas. Crosman's family are leaving for Aiken, N. C., for a two months stay at the noted sanitarium there.

F. T. E.

ROCHESTER, N. Y., March 14.

Recent Import Decisions.

GRASS SEED—CLOVER.

Before the U. S. General Appraisers at New York, January 29, 1894.

In the matter of the protest, 53977 *a*-11569, of Henry Nungesser, against the decision of the collector of customs at New York as to the rate and amount of duties chargeable on certain seeds, imported per Berlin, June 6, 1893.

Opinion by SOMERVILLE, *General Appraiser*.

The goods are invoiced and entered as 100 bags of clover seed, and were assessed for duty at 20 per cent ad valorem under paragraph 286 of the new tariff act of 1890, as "agricultural seeds" not specially provided for in said act. They are claimed to be free of duty as "grass seeds" under paragraph 699 of said act, which exempts from duty a large variety of seed, including "all flower and grass seeds," not specially provided for in said tariff act.

We have held in a recent decision (*In re* Henderson & Co., protest 56550 *a*, not yet published) that "grass seeds" are a species of the more generic descriptive term "agricultural seeds," and for that reason a grass seed, although sown in fields, as distinguished from use for ornamental purposes in lawns or otherwise, is subject to classification under paragraph 286, and not under paragraph 699, unless more specifically provided elsewhere in the tariff act.

Clover is a species of grass, and is so considered commercially as well as in common parlance. It is defined by Worcester to be "a valuable kind of grass of several varieties." It is so characterized in McCullough's Dictionary of Commerce (p. 302, Ed. 1882): "A very important species of grass."

[CONTINUED ON PAGE 778.]

WE SELL SEEDS

Specially Selected for Florists.

Sweet Pea Blanche Ferry,	$ 75 per pound
" " Pure White,	1 00 "
" " In Colors,	1 00 "
Mignonette Machet,	50 per ounce
Balsam, White Perfection,	1 00 "

And other Flower and Vegetable Seeds, in bulk or package.

☞ CATALOGUE ON APPLICATION.

Weeber & Don,

SEED MERCHANTS AND GROWERS,

114 Chambers Street, NEW YORK.



GLOXINIAS Beautiful Erect Flowers. Fine Fresh Bulbs, $1.00 to $6.00 per 100.

TUBEROUS BEGONIAS BEST ENGLISH VARIETIES. Blooming size Bulbs, $3.00 per 100. Larger Bulbs, $4.00 to $6.00 per 100, in colors named, White, Pink, Red and Yellow, $4.00 to $6.00 per 100.

SPOTTED CALLAS Fine Bulbs, $4.00 to $6.00 per 100.

LITTLE GEMS All sizes, $6.00 to $15.00 per 100.

GLADIOLUS BRENCHLEYENSIS $5.00 per 100.

FRENCH CANNA Madame de hors, $1.00 per 100.

Write to us for any Bulbs wanted. WE CAN SAVE YOU MONEY.

A. Blanc & Co.

314-316 N. 11th Street, - - - PHILADELPHIA, PA.

Notice.

Our brother Hermann Rolker retires from the firm of August Rolker & Son this day, which will be continued by the undersigned as heretofore, at 136 and 138 West 24th Street.

New York, March 15, 1894. { August Rolker, Winfried Rolker, Joseph E. Rolker, } Composing the firm of **August Rolker & Sons.**

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August Rölker & Sons, New York.



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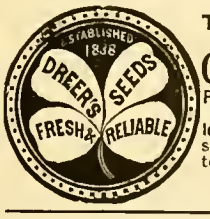
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[SEED TRADE.—CONTINUED.]

The word grass, it is true, formerly meant any green herbaceous plant of small size; but in modern and especially botanical nomenclature the term is more narrowly confined to plants belonging to the order of *Gramineæ* (or *Graminaceæ*).

The testimony in this case shows that clover seeds are known commercially as grass seed, and are dealt with in trade under this designation. The same fact has been made to appear by satisfactory evidence in other cases before this board where similar questions were under investigation.

We find as facts from the evidence—

(1) That the article covered by the protest is the seed of the crimson clover, known as scarlet clover (botanical name, *Trifolium incarnatum*), which belongs to the red clover family.

(2) It is commercially known as a grass seed, and sown chiefly, if not alone, for the forage of hay crop produced from it.

The protest claiming the article to be free of duty as a grass seed under paragraph 699 is sustained, and the collector's decision is reversed, with instructions to reliquidate the entry accordingly.

GRASS SEED—ITALIAN AND ENGLISH RYE GRASS.

Before the U. S. General Appraisers at New York. January 29, 1894.

In the matter of the protests, 56550 *a*-13633 and 56999 *a*-14998, of Peter Henderson & Co., against the decision of the collector of customs at New York as to the rate and amount of duties chargeable on certain seeds, imported per Bourgogne, July 31, 1893, Circassia, August 9, 1893, and Champagne, August 9, 1893.

Opinion by SOMERVILLE, *General Appraiser*.

The board, having taken at the hearing of these protests the testimony of many dealers in seeds of all kind, make the following findings of fact, based on the record and other evidence:

(1) The merchandise covered by the first-named protest (No. 56550 *a*) is invoiced as "10 bales of grass seed," and was returned by the local appraiser as "grass seed or agricultural seed."

(2) It is in fact Italian rye-grass seed, and is so known in trade, the botanical name being *Lolium Italicum*.

(3) The use of this species of grass is for hay and pasture only.

(4) The merchandise covered by the second protest (No. 56999 *a*) is invoiced as "30 bales extra Ayreshire perennial rye grass," and was returned by the local appraiser as "grass seed for agricultural purposes." This article is commonly and commercially known as English rye-grass seed (botanical name, *Lolium perenne*).

(5) The rye grass raised from the seed is used chiefly for hay and pasturage, but, being perennial, also to a limited extent for lawns and meadows, being mixed for this purpose with other lawn grasses.

(6) Both of the foregoing articles are agricultural seeds, being commonly used in fields and on farms for the uses above stated.

(7) Each of them is known as grass seed, both in common parlance and among importers and other dealers in the seed trade.

The collector assessed both the English rye-grass and the Italian rye-grass seed under paragraph 286 of the new tariff act, which reads as follows:

Garden seeds, agricultural seeds, and other seeds not specially provided for in this act, twenty per cent ad valorem.

[CONTINUED ON PAGE 780.]

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Am. Beauties,	**$6 00**	**Mermets, -**	**$3 50**
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La France, -	**3 50**	**Wootton, -**	**3 50**
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Brides, - -	**3 50**	**Meteors, - -**	**3 50**

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Strong plants, in 2½-inch pots.

BRIDESMAID..... 5 cts.	Remember we can ship to near-by southern points by freight.
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W. B. WOODRUFF, Florist, Westfie J.

[SEED TRADE.—CONTINUED.]

The importers claim that they should each be exempt from duty under paragraph 699, which places on the free list a great variety of seeds, including "all flower and grass seeds" not specially provided for in said tariff act.

The question raised by the protests is, which is the more specific and minute descriptive term, agricultural seed or grass seed.

The history of legislation on this general subject and the rulings of the Treasury Department under laws prior to the present tariff act (1890) are reviewed by Justice Blatchford in Ferry *v.* Livingston, (115 U. S., 115.) That decision seems to recognize the principle that the phrases "garden seeds" and "agricultural seeds" are descriptive merely, indicating rather the uses made of such seeds than the commercial designation of the articles, and the view is expressed by the court that the general and not the exceptional use must determine the classification. This view was followed in Clay *v.* Magone. (40 Fed. Rep., 230.)

The evidence in this case fully sustains the fact that the words "agricultural seeds" in the trade are understood generally to mean such seeds as are sown in fields, as distinguished from those sown in gardens and used for ornamental purposes in lawns.

The evidence further shows that those grass seeds which are chiefly used for sowing or are grown in fields are generally regarded by the trade as a species or subdivision of the more generic term "agricultural seeds." The commercial seed catalogues introduced in evidence on the hearing corroborate the same fact.

Both varieties are catalogued under the head of "grasses," which are distinguished from "farm seeds" usually sown in fields, such as turnips, corn, buckwheat, oats; rye, wheat, barley, and the like.

We extract the following definitions from the testimony of Mr. Burnet Landreth of the firm of D. Landreth & Sons, said to be the largest seed producers in the United States, which was given at a hearing before the Committee of Ways and Means (Fifty-first Congress, January, 1889, p. 876, Revision of the Tariff):

Garden seeds are seeds of plants producing edible tissue without process of machine manufacture.

Agricultural seeds are seeds of plants either not edible, as grass seeds, or such as require manufacture, as wheat.

This latter definition supports the testimony of the witnesses given before this board in the present hearing, that "grass seeds" are regarded as a species of the genus "agricultural seeds."

We hold, accordingly, that the phrase "all * * * grass seeds" in said paragraph 699 of the free list, is more specific than the words "agricultural seeds" in paragraph 286, and that the former phrase includes Italian rye grass and English rye grass of the varieties above described.

The contrary view announced *In re* Central Vermont R. R. Co. (G. A. 2161) is modified accordingly.

The protests are both sustained (the one in 56999 *a* being confined to the article of rye grass per steamer Circassia). The collector's decision is reversed as to the above articles, and affirmed as to all others on the invoices, if any, covered by said protest.

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CHRYSANTHEMUMS.

GOOD PLANTS, EACH 10c.

B. Beauty, L. Price, Thistle, Kioto, Puritan, Mrs. I. D. Sailor, Canfield, Mermaid, Jessica, Good Gracious Mrs. F. Thompson, L. Bird, Eda Prass, Gold, W. W. Coles, Dinna, Louis Boehmer, Ivory, V. H. Hallock, Gloriosum, John Firth, Jean Humphrey, Mrs. Wheeler, J. L. Childs, Sam Sloan, Ed. Andignier, Cullingfordii, Mrs. Humphrey, Mrs. G. Russel, L. Canning.

Same varieties unnamed each 6 cents.

Address **LOWVILLE GREENHOUSE,**
LOWVILLE, N. Y.

WE REPEAT THAT THE NEW FANCY CARNATION "HELEN KELLER"

Is the most beautiful in form and prolific in bloom of any carnation that has been brought to our notice up to the present time.

We will read to you a letter under date March 10. It is from the well known W. Raymond, Esq., proprietor of the **Raymond Flower and Seed Store,** Boston, Mass., and also of the **Raymond Nurseries,** Pasadena, California.

"The box of Carnation blooms that you sent to me at Cambridge (Mass), were duly received, and I find them so satisfactory, that I send herewith a check for $78.00, which with the $12 00 sent you recently will make $90 00, and you can change my recent order making it 1000 instead of 100. I thought that our carnations in California were as large as could be grown, but your 'HELEN KELLER' beats them all." All of which is is endorsed by those who have seen it **Growing** and **Blooming.**

Price for well rooted cuttings, $3.00 per doz.; $12.00 per 100; $25.00 for 250; $90.00 per 1000. 500 at 1000 rate.

ORDERS MAY BE SENT EITHER TO

J. N. MAY, SUMMIT, N. J. OR EDWIN LONSDALE, CHESTNUT HILL, PHILA.

CARNATIONS

Rooted Cuttings Ready Now.

Silver Spray	Wm. Scott	E. Pierson
Lizzie McGowan	Daybreak	Portia
Blanche	Edna Craig	Wabash
Golden Gate	Annie Pixley	F. Mangold
J. J. Harrison	M. Albertini	Tidal Wave
T. Cartledge	Nancy Hanks	Dr. Smart

These and other standard sorts $12 per 1000 and upwards

Varieties of 1894 Ready April 1st.

The Stuart (scarlet) was awarded the gold medal at Indianapolis. Uncle John (white) received certificate of merit at same place. Helen Keller, Goldfinch (yellow) and E. A. Wood.

SEND FOR COMPLETE PRICE LIST.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

4 NEW CARNATIONS
FOR 1894.

UNCLE JOHN, white; **THE STUART,** scarlet;
E. A. WOOD, pink variegated;
GOLDFINCH, yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from **Headquarters.** We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Eliz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.
Send for price list.

F. DORNER & SON, La Fayette, Ind.

THE JACQUEMINOT CARNATION

is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. NO MORE SAMPLES—we cannot spare the time. Send for circular. Per dozen, $2.00: per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.

PETER FISHER & CO.,
ELLIS, Norfolk Co., MASS.

ROOTED CUTTINGS OF CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chester Co., PA.

CARNATIONS.

ROOTED CUTTINGS.

For Immediate delivery: L. McGOWAN, PORTIA, PURITAN, and WM. SCOTT.

NO RUST.

Address **E. P. MARSHALL,**
LONDON GROVE, PA.

WANTED

A few thousand currant bushes, two year old Cherries and Fay's Prolific. Give us cash prices. **J. E. FELTHOUSEN,**
370 Van Vranken Ave., Schenectady, N. Y.

CARNATIONS.

Varieties good. Cuttings good. Lizzie McGowan, Silver Spray, Aurora, Grace Darling, Portia and Fred Dorner, at $1.25 per 100, $10 per 1000. Daybreak, at $2.50 per 100; $20.00 per 1000. Edna Craig, $3.00 per 100.

Annie Pixley and Helen Keller.

Pixley is a model pink; Keller is a model fancy. Both are money in your pocket varieties for cut flowers. Price $12 per 100; $90 per 1000.

Verbena Lancaster Beauty.

Decidedly the prettiest Verbena that grows, novel as well as beautiful and sells at sight. Price $2 per 100. Seedlings from the best mammoth strain 90c. per 100; $7.50 per 1000.

Coleus, choice sorts at $7 per 1000, quantity unlimited.
Alternanthera, Red, Yellow and Pink, transplanted plants at $8 and $10 per 1000.
Scabiosa, Snow Crest the finest white in the world, 90c. per 100; $7.50 per 1000.
Pansies, Seedling plants at $5 per 1000; Blooming plants $12 to $15 per 1000. The same good strain I always have.
Geraniums. A choice assortment (very choice), with labels at $1.50 per 100; $12 per 1000; without labels $1.25 per 100; $10 per 1000. (Rooted Cuttings.)
No list published and terms are cash with the order or C. O. D.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE,

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10.00 per 100; $90.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000.
Send for price list.

EDW. SWAYNE,
KENNETT SQUARE, PA.

CARNATIONS

ROOTED CUTTINGS NOW READY.

Wm. Scott, Edna Craig, Daybreak, Thos. Cartledge, Buttercup, McGowan, and many of the standard kinds. Orders filled for the New varieties,
Stuart, Uncle John, Helen Keller, Sweetbrier, Annie Pixley, Bouton d'Or.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

DAYBREAK, NANCY HANKS And CARTLEDGE.

NOW READY.

FINE, CLEAN, HEALTHY STOCK. SPECIAL PRICES to large buyers of these splendid Carnations.

Address **H. E. CHITTY, Paterson, N. J.**

HEADQUARTERS
FOR
Bread and Butter Carnation Cuttings

	PER 100	PER 1000
PURITAN, LIZZIE McGOWAN, PORTIA, GRACE WILDER,	$1.00	$9.00

All other Good Kinds. Write for Prices.

S. J. REUTER, WESTERLY, R. I.

MONEY-GETTERS ALL!

THESE NINE CARNATIONS FROM SOIL.

Free from Disease and First-Class in every way.

- Uncle John
- The Stuart
- Wm. Scott
- Edna Craig
- Albertini
- Daybreak
- Cartledge
- McGowan
- Portia

Note, before you order elsewhere, that we offer the above and twenty other good varieties of Carnations, well established in soil, ready for planting out or potting up—delivery in April—at the price of cuttings from sand, and guarantee satisfaction. Send for list.

ALEX. McBRIDE,
ALPLAUS, N. Y.

50,000 Carnations.

ROOTED CUTTINGS READY.
NO "RUST."

SEND FOR LIST. . . .

Wm. Swayne,
P. O. Box 226. KENNETT SQUARE, PA.

50,000
Rooted Cuttings Carnations,

of standard tested sorts. All healthy. Send list of your wants.

Address **BENJ. CONNELL,**
Carnation Grower. WEST GROVE, PA.

Also a nice lot of small Ampelopsis Veitchii for potting up, at $20.00 per 1000.

Mention American Florist.

SEND FOR OUR PRICE LIST OF
CARNATION ROOTED CUTTINGS.

Prices Greatly Reduced.
Largest Stock in the United States.

ESSEX HEIGHTS FLORAL CO.,
BELLEVILLE, N. J.

Carnation Cuttings.

Free from rust and disease. Send for price list.

J. T. DeWitt, Bristol, Pa.

Montreal.

At the last meeting of the G. and F. Club, which was well attended, it was decided to hold another chrysanthemum exhibition this coming fall, and the executive were instructed to get out an advance sheet at once. The annual social will take place on Thursday after Easter, and the usual drive will be dispensed with. The matter of affiliation with the Montreal Horticultural Society does not make much headway, and the idea seems distasteful to several members of the club. At the next meeting the advisability of applying to the legislature for a charter of incorporation will be considered. This subject has been mentioned before but no action was taken by the club. Several new members were nominated.

An able and exhaustive essay upon lilies, was read by Mr. Jules Betrix. The essayist took great trouble to procure all the information available concerning this class of plants, but he more especially pleaded the cause of L. auratum. In discussion the question of the cause of Harrisii splitting was asked, and the prevailing opinion was that it was owing to some check or injury received by the bulb early in the season. In regard to dwarfness of the plant Mr. McKenna had a plant which carried several flowers and was only 10 inches in height, while Mr. Bray by some good management had them only eight inches in height, which is certainly dwarf enough at any rate. Mr. McKenna also read an exhaustive paper upon carpet bedding plants, their propagation and culture. The president exhibited in 3-inch standard pots three cinerarias, which for uniformity of size, color and quality and quantity of bloom, were the admiration of all who saw them.

The weather, which has been mild and bright, has again changed and dull days succeeding, cut flowers for Easter trade will be none too plentiful; at any rate appearances point that way; crops of roses and carnations will hardly be in on time. Bulbous stock will be plentiful, also spiræas. Lilies are likely to be in rather short supply. Azaleas and rhododendrons will help to make a good showing.

Shamrocks were out in plenty for St. Patrick's day. Everybody grows them now a days up in this part of the world although by report some cannot realize much profit on them.

Bedding stuff is being more largely grown than before, although we sometimes hear that it scarcely pays for the trouble except in certain localities.

A recent visit to P. McKenna & Son showed as fine a house of carnations as could be wished for. They were throwing up immense quantities of flowers, but would scarcely be in for Easter. Mr. McKenna has a fine pink sport from President Cleveland bouvardia which he is watching with great care. If he succeeds in fixing it we may soon hear more about it.

Business is generally reported good for the season of the year. One of the largest private establishments in the city is to be removed as the land is needed for building purposes. The plant has been purchased by A. Martin who will remove it to his country nurseries at Broadlands at an early date, re-erecting in suitable style for growing florists' stock. HABITANT.

Please mention the American Florist every time you write any of the advertisers on this page.

Higher
prices have been paid this season in Boston for
Ada Byron and Nicholson
than for any other Carnations because they are the
Purchasing Public's Ideals.
Ada Byron is the deepest yet brightest pink imaginable,
Nicholson is just the color of a Mad. G. Luizet Rose.
Language cannot describe the sweet clove-fragrance they possess.
They are superior in vigor, size, color, fragrance,
keeping and selling qualities to any yet produced.
First Prizes and Certificates
at New York, Boston and Springfield.
Send for priced descriptive circular to the Originators
Sole Agents.— Joseph Breck & Sons (Corporation)
47 to 54 North Market St. Boston. Mass..

BOUTON D'OR,

The best Yellow CARNATION. Ready April 15th
Price, $2.00 per dozen; $10.00 per hundred.

Dailledouze Bros., Flatbush, L. I., N. Y.

Rooted Cuttings. CARNATIONS. Rooted Cuttings.

ALL THE BEST VARIETIES IN CULTIVATION.
FINE STOCKS OF DAYBREAK, EDNA CRAIG AND CARTLEDGE.
NO DISEASE! NO RUST!
Catalogues ready January 1st, '94. Correspondence solicited.
Address **H. E. CHITTY, Paterson, N. J.**

The Best Carnation in the Market.

THE ADELAIDE KRESKEN

Which was originated in 1891, and flowered in the same year, is conceded by all to be the prettiest Carnation ever grown. Strong grower, free from rust, 1½ ft. high, stiff stem, good calyx, and the flower (of a beautiful rosy pink color) averaging three inches and over.

A VERY FREE BLOOMER. In addition to recovering the **Best Seedling Prizes** at Cincinnati, O., Club Certificate at Springfield, Mass., and Milwaukee, Wis., Hunt Prizes, Indianapolis, Ind., it has received Certificates of Merit at the American Florists' Society, St. Louis, Mo.; also the best vase of pinks at St. Louis, Mo., and Certificate of Merit at Toronto. The undersigned begs leave to submit the following exceedingly low prices for **Rooted Cuttings**, which will be ready March 1st, 1894: **$2.00 per doz.: $10 per 100; $45 per 500; $80 per 1000.**

Cash must accompany all orders. Address all communications to

PETER HERB, Mt. Healthy, Hamilton Co., O.

CARNATIONS

Rooted Cuttings, Now Ready.

	Per 100	Per 1000
DAYBREAK	$2 50	$20 00
BUTTERCUP	4 00	35 00
PURITAN	2 00	15 00
SILVER SPRAY	1 50	10 00
LIZZIE McGOWAN	1 50	10 00
GRACE WILDER	1 50	10 00
PORTIA	1 50	12 00

Cash with order. 10c. per 100 extra when ordered shipped by mail.

Send for wholesale price list of Rooted Cuttings and Plants.

JAMES HORAN, Florist, Bridgeport, Conn.
Mention American Florist.

ROOTED CUTTINGS

Carnations, Chrysanthemums, Coleus, Verbenas, Etc. now ready.

Stock is the very best, and prices very low. If you want any rooted cuttings it will pay you to correspond with us. Send for price list.

EVENDEN BROS., Williamport, Pa.

COLEUS.

Our stock is large and handsome, consisting of 70 to 75 varieties, including the very newest kinds.

ROOTED CUTTINGS, in 30 to 40 varieties, (our selection), at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.

NEW KINDS, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.

Golden Verschaffeltii and Mrs. I. D. Haight (yellow), at $8.00 a 1000. *We will include* at least 50 cuttings of the *new kinds* in every 1000 purchased.

CARNATIONS.

A large stock of **BUTTERCUP** in prime condition.
Rooted Cuttings, $5.00 per 100; $10 00 per 1000.
Prices of other kinds on application.

Send for circular. Safe delivery guaranteed in all cases.

W. R. Shelmire,
. . . AVONDALE, PA.

Carnation Cuttings
NOW READY.

Daybreak and Puritan, $2 per 100; $15 per 1000.

Lizzie McGowan, J. J. Harrison, Nellie Lewis, Grace Wilder, American Flag, Golden Gate, $1.50 per 100; $12.50 per 1000.

Mrs. Fisher, Hinze's White, Portia, Hector, Tidal Wave, $1 25 per 100; $10 00 per 1000.

Also Rooted Cuttings of **MARIE LOUISE VIOLETS,** $6.00 per 1000. A fine lot of Violet clumps full of cuttings, at $5.00 per 100. Ready to deliver April 1st and after.

ALL FIRST-CLASS STOCK.

C. B. HUMPHREY.
607 Chatham St., ROME, N. Y.

Healthy Carnation Plants Make Money for the Grower.

OUR CUSTOMERS ARE ALL COMMENDING OUR STOCK AND ENDORSING OUR SYSTEM OF GROWING.



THIS PHOTOGRAPH WAS TAKEN IN THE MONTH OF DECEMBER AND REPRESENTS OUR DAILY SHIPMENTS.

See What They Say: Carnations are Certain to Pay when you buy your Cuttings from THE COTTAGE GARDENS.

TESTIMONIALS.

SEAWANHAKA GREENHOUSES, W. L. Swan, Proprietor,
OYSTER BAY, L. I., January 25, 1894.

Last fall, to complete my stock for bench planting, I purchased of you a lot of carnations. It gives me pleasure to assure you that they were entirely satisfactory, and the *best* carnation plants I have ever purchased. It is a great blessing to Long Island florists to have near-by facilities for purchasing first-class stock, such as your establishment is affording, and I hope you will be liberally patronized as you so well deserve. Wishing you the fullest measure of prosperity, I remain, Respectfully yours, W. L. SWAN.

WILKESBARRE, PA., January 24, 1894.

The carnations procured from you last fall were the healthiest and cleanest stock I ever saw. They have done excellently well. As I required these for stock, health and vigor, of course, was the great desideratum. In these days of rust, bacteria, and all the ills which affect the carnation, it is a great pleasure to know where to procure stock free from these diseases. Yours very truly,
GEO. E. FANCOURT, Rose Grower.

TARRYTOWN-ON-HUDSON, January 25, 1894.

The carnations obtained from you last spring were obtained for sale and propagation purposes only. The plants were very satisfactory, being strong, healthy, well rooted cuttings, and we were very much pleased with them.
Very truly yours, F. R. PIERSON CO., Florists.

BUFFALO, N. Y., January, 1894.

I had from you last spring 500 Daybreak and 500 Wm. Scott carnations. I am glad to be able to say that the plants of both turned out remarkably fine, free from disease of all kinds. The bed of Wm. Scott has been loaded with buds and flowers from September 15th, and is finer to-day than ever and a sight that is good to dispel the blues. Respectfully yours, WM. SCOTT, Florist.

1623 DORCHESTER AVENUE,
DORCHESTER, MASS, January 26, 1894.

The carnations that I bought of you last season were healthy, well rooted, true to name, and full count. The most satisfactory lot I have ever received from a commercial house. Wishing you all prosperity at your new place and awaiting your list of novelties, I remain, Yours, etc., J. A. FOSTER, Florist.

BELLMORE, L. I., January 26, 1894.

The carnations purchased of you proved to be healthy and vigorous. They were very satisfactory. Your description of the merits of the new varieties was not overdrawn, thereby establishing our confidence in your stock for the future.
Yours respectfully, R. P. JEFFREY & SON, Nurserymen and Florists.

SEA-SIDE GREENHOUSES,
SOUTHAMPTON, N. Y., January 25, 1894.

Please send your price list of rooted cuttings as soon as issued. Those we received from you last season were first-class in every respect and have done well. We wish particularly to say a good word for Wm. Scott and Mad. Diaz Albertini. Both are very fine. Yours truly, HALSEY & EDWARDS.

Send for our Illustrated and Descriptive Catalogue, which gives in full our methods of growing and tells how we fight the rust.

THE COTTAGE GARDENS.

QUEENS, N. Y.

Montreal.

On the 26th of January, with the thermometer standing at zero, the writer with a couple of friends, seated behind one of Montreal's famous roadsters started for Dorval, the home of the "Montreal Forest and Stream Club," to make a long promised call on that prince of chrysanthemum growers, Mr. Thomas McHugh, the head gardener of the place. After a drive of nearly two hours we arrived there. Oh! what a lovely spot! It is situated on a little promontory extending out into the beautiful lake St. Louis and even with the ground hidden under two feet of snow it is worth going to see, with its abundance of specimen spruces, pines, etc., and arbor vitæ hedges. But it was not these we came to see. We came to see "Genial Tom" and his pets under glass. We expected to see something good, but on entering the conservatory we were truly surprised at the magnificent display of bloom which burst on our view. We might have expected it in March but such a display of bloom in January is seldom seen anywhere, and every plant a specimen. There were cyclamens in 6-inch pans (3 in. deep) with 100 buds and blooms; begonias 3 feet high with nothing but flowers from pot up; azaleas, in great variety and form perfect; pink geraniums fit for a September exhibition; Crozy Cannas in August splendor; a few cinerarias of immense proportions and great beauty of bloom; his calceolarias were not out but were promising to be grand; he showed us a variegated leaved Nicotiana affinis in good bloom. There were several specimens of cypripedium in grand bloom, one C. insigne bearing two flowers on each stem. A piece of wall was covered with Manettia bicolor, which was a mass of bloom; as specimen of Streptosolen Jamesonii 8 feet high was just coming into bloom; this was planted in its position from a thumb pot 8 months ago; a heliotrope about the same size was planted near it at the same time, also from a thumb pot; a few specimens of Genista canariensis were noticed in good bloom. There are no palms on the place, but their absence is not noticed, the house is so well filled with bloom. His display of foliage plants is confined to some beautiful crotons, dracænas, Araucaria excelsa, and adiantums. Altogether we come to the conclusion that Mr. McHugh's knowledge of plant growing is not confined to growing cup-winning chrysanthemums. After partaking of Tom's big-hearted hospitality we again tucked ourselves under the buffalo robes and turned our faces eastward and on our way home we called on Charley Smith, J. P. Dawes' gardener, at Lachine. We found his place looking well. His display of bloom was really meritorious, considering that he is under the disadvantage of having poor light, the buildings being old, but Charley seems to share the knack of growing cyclamens, as he has some very fine specimens. His Harrisii lilies were also fine. A few very fine specimens of palms and tree ferns were noted, also some very good crotons. Mr. Smith has also entered the ranks of chrysanthemum growers, he taking his share of the prize money last November.

The shades of evening were fast falling when we again resumed our journey homeward, which we reached about 7 o'clock after a very pleasant outing.

BEAVER.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Sunset Seed and Plant Co.

(SHERWOOD HALL NURSERY CO.)

No. 427-9 Sansome Street

SAN FRANCISCO, CAL.

HEADQUARTERS FOR

California Sweet Peas

And other Flower Seeds

Pacific Coast Tree Seeds

And Native Bulbs

Japanese Lily Bulbs

And other Oriental Specialties

Onion Seed, Peas, Beans, Etc.

Write for special contract prices

Sago Palms.

A few hundred fine plants, 1 to 2 leaves, 6 to 12 inches long; good bulbs, $6.00 per dozen.

LARGER PLANTS, in good condition, 1, 2, 3, 4 and $5.00 each.

John G. Heinl,

25 North 8th St., TERRE HAUTE, IND.

Mention American Florist.



I HAVE A FINE STOCK OF Pears, Apples, Cherries, Quinces, Peaches, 10,000 Shade Trees from 8 to 18 feet, 1500 Purple Beech, 1000 White Fringe, 4 to 7 feet, 10,000 Evergreens, all sizes and kinds, 10,000 California Privet, 2 to 3 feet, 3000 Hydrangeas, 2 to 4 feet, 5000 Shrubs, choice kinds, 10,000 of Clematis, Virginia Creepers, Honeysuckles, Rhododendrons, Azaleas, Asparagus and Strawberry Plants, etc; 10,000 Hardy Roses extra strong.

Steamboats to New York City; two Railroads three Express Companies.

S. CRANE,

Prop. of Norwich Nurseries,

Established 1870. NORWICH, CONN.

NEW ROSE

Mrs. W. C. Whitney.

Cross between American Beauty and Souvenir d'un Ami, combining all the best qualities of both parents without their defects.

The demand for this splendid variety has *exceeded* my *expectations* and I can only accept orders now to be filled from May 1st and onward. I have a good lot coming on for that date and hope to be able to fill all orders then.

All other stock of Roses in fine plants ready now.

NEW CHRYSANTHEMUM

Yellow Queen.

By far the very best early yellow yet introduced. Flower clear bright yellow with fine stiff stem and handsome foliage; in shape very similar to "Minnie Wanamaker."

Also Achilles, Malmaison, Mayflower, Minerva and Titian.

Five grand varieties either for exhibition or cut flowers.

All the leading New Carnations in fine healthy stock now ready.

For full particulars, prices, etc., see my price list, *mailed free.*

JOHN N. MAY, - Summit, New Jersey.

ROOTED CUTTINGS. Per 100

Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Coleus of sorts, mixed	.50
" best new and old, named	1.00
Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted, Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't.	$3.00 and 4 00
Abutilons, assorted	4.00
Echeveria glauca	$2.00 and 3.00
Extensa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted	$2.00 and 3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Anthericum picturatum	per dozen, 75c.
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4 00
Silver-Leaf Geraniums, 3 varieties (no Mme. Salleroi)	4.00
Oxalis, Ortgiesi and Bowii	4.00
Dahlias, named, our selection	5.00
French Cannas, named, our selection, dry roots	5.00
French Cannas, unnamed	3.00
" " potted	10.00
Fancy Leaf Caladium, fine mixed	6.00
" " " named	8.00

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.

Pæonies Dbl. Rose, scented $7.50 per 100.
Gladiolus, Dark mixed 1st size, $8 00; 2d size, $6.00; 3d size, $4.00 per 1000.
Tuberoses, 1st size, $8.00; 2d size, $4.00.
Sets, $1.00 per 1000
Double Dahlias, 6 var, whole roots, $8 00 per 100.
Cannas, 7 var, $4.00 per 100.

TILL THE 10th OF APRIL

Single Tiger Lilies, $2.00 per 100.
Iris, dwarf, large white, and 2 kinds of purple, 50c per 100.
Vinca, blue, 50c per 100.

MRS. N. L. CASTLE,
BURLINGTON, KAN.
This will not appear again.

THE GREAT ANTIPEST.
For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

CANNA Florence Vaughan, Per 100 $25.00.
ALLA True Little Gem, Per 100 $10.00.
LOTHILDE Soupert Rose, Per 100, 2½ inch, $4 00

NEW YORK: 26 Barclay Street. **VAUGHAN'S SEED STORE** 146-148 W. Washington St., CHICAGO.

HARDY ORANGE (Citrus trifoliata).

The coming hedge plant, superior for the purpose to anything else yet offered.

One year, 9 to 15 inch	$3.00 per 100;	$25 00 per 1,000
Two years, 12 to 24 inch, branched	4.00 per 100;	35.00 per 1,000

F. O. B. for cash with order.

J. T. LOVETT, Little Silver, N. J.

Fancy Caladiums Very cheap.

Bulbs from 3½-inch pots, for mailing, $4.00 per 100; $35.00 per 1000. The same named, $8.00 per 100; $42.50 per 1000.
Cape Jessamine, from 4-inch pots, nice, $9.00 per 100.
Large Phrynums, very cheap, 6, 8, 10 inches.
Cyperus, from 4-in. pots, 6c. Curculigo, 4-in. pots, 10c.
Anthericum vittatum var., 4-inch pots, 8c.
Vinca var., 2½-inch pots, $2.00 per 100.
Also one 8-horse power steam boiler, nearly new, very cheap. Same is well kept. Address
F. J. ULBRICHT, florist, P. O. box 655, Anniston, Ala.

EXTRA STRONG, WELL ROOTED
MARIE LOUISE VIOLETS,
Now Ready. $5.00 per 1000; 90c. per 100.
MISS P. A. BAKER, Media, Pa.

Pansies, 50,000.

The Jennings strain of large flowering and fancy pansies now ready. Fine large blooming plants, all colors, $2.00 per 100; $15.00 per 1000. Medium size plants, for May blooming, $5.00 per 1000 by Express; 60c. per 100 by mail.

Pansy Seed, pure white $1 per pkt. of 2500 seeds.
Large yellow, dark eye, $1 " " "
Snowflake Daisies, fine plants, $2 per 100.

Extra fine strain of German Daisies, large and double, white, pink and red, mixed or separate, $2.00 per 100. Cash with order.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
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Mention American Florist.

Philadelphia.

The cool weather of the early part of the past week was heartily welcomed by most of the growers. In many places the stock was coming on far too rapidly and if the warm weather had continued the results would have been disastrous; as it is, there will be considerable loss.

Spiræa compacta seems to be gaining ground and is likely to displace the old Japonica. Robert Craig had about 500 plants which were sold immediately. Everyone that saw it seemed to prefer this to the old variety. It requires more time than Japonica but when in full bloom it is a much more attractive plant.

Business the past week except Saturday has been extremely dull. There has been very little decorating and all around both from growers and dealers the report was "nothing doing." Of course this had a demoralizing effect on prices. It isn't the prices however that were affected so much as it was the quantity, or we should say the count. Brunners for instance are quoted at $5 per doz. by the growers. "Don't want any at that price," says the dealer. "Wait until I show you the dozen I'll give you" and the grower proceeding to count out, finally holding up from 20 to 24 fine specimens says, "how's that for a dozen?" and the dealer takes the chances. In smaller roses 25 of a kind generally count up to three dozen, etc. It was reported that one grower with a lot of boxes after going the rounds of the stores without success finally set them down on Chestnut St. and opening up was soon cleaned out at satisfactory prices by the passers by.

Quoted prices remain about the same as last week but will stiffen up a little for Easter except for lilies, which are offered very low. There promises to be a great lot of bulbous flowers in at this time, particularly of tulips, hyacinths and valley. There have been very few tulips about the past season and even these were hard to dispose of, nobody seems to want them. It would seem that the numerous Hollanders who are moving about with such activity at the present time will have a hard job securing orders, in the light of the grower's experiences of the past few years.

Growers are complaining of the daffodils; formerly they could get two flowers to a bulb and oftentimes three, but this year even two is an exception as very few bulbs produce more than one bloom.

K.

Begonias.

	Per 100
Flowering varieties	$4 00
Paul Bruant, 3 in. 8 cts. each; 2½ in	6 00
Rex, in variety	5 00
COLEUS, in variety, per 1000, $20 00	2 50
Moon Vine, (I. Noctiphyton)	3 50
COBÆA Scandens	3 00
Geraniums, none but the best varieties, per 100, $25 00	3 00
Ampelopsis Veitchii, 1½ to 3 feet	4 00
" Tricolor, strong 2 in.	3 50
Chrysanthemums leading varieties, per 100, $3 00	2 50
Lemon Verbena, strong	3 00
Lantana, fine varieties	2 50

Roses.

Hardy Climbers, 1½ in.	3 00
H. P., 1½ in.	3 50
La France, Duchess of Albany, White La France, Striped La France, Hermosa, Mrs Degraw, Queens Scarlet, Papa Gontier, Clothilde Soupert, Rainbow, etc., per 100, $25 00	3 00

Carnations.

Rooted Cuttings, leading varieties, healthy, per 100, $10 00	1 25
HELIOTROPE, 1 varieties	2 50

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Of Seasonable Plants and Bulbs.

Bulbs and Tubers.

	Doz.	100
Achimenes 6 distinct colors		$ 4 00
Amaryllis Formosissima		4 00
" Johnsoni Ex. fine	$3.50	25.00
Caladiums, Fancy leaved 25 choice varieties	1 50	12.00
Begonia Tuberous Rooted Our stock of these is very fine both in size of bulb and quality of bloom.		
Choice Single Mixed	.60	4.50
" Double "	1.50	12.00
" Singles to color	.75	5.00
Calla Spotted for out door	$1.00	$8.00
Lilium Auratum. The finest bulbs we have handled, 7 to 9 in. diameter	75	5.00
11-13 in. diameter	1.25	9.00
Lilium Speciosum Album	1 75	12 00
" " Rubrum	1 25	8.00
Tuberoses Excelsior Pearl, Our stock of these is particularly fine, per 1,000 $7.50		1 00
Tuberoses Albino	50	4.00

Dwarf French Cannas.

We enumerate below a few of the most popular varieties, we carry a fine stock of these and other new and good kinds. All the plants offered are started and most of them established in pots in healthy growing condition. This stock must not be compared in quality or price to dormant eyes; a large proportion of which fail to grow.

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Capt. P. de Suzzoni	2.50	20.00	Madame Crozy	1.50	10.00
Charles Henderson	3 50	25 00	Miss Sarah H[illegible]	2.00	15.00
Comte de Choiseul	1.50	10 00	Nardy pere	2 00	15.00
Deuil de St. Grevy	2 00	15.00	Nelly Bowden	1.50	12.00
Duchess de Montenard	1.50	12.00	Paul Bruant	3 00	20.00
Explorateur Crampbel	2.00	15.00	Paul Marquant	1.50	10.00
Florence Vaughan	3.50		Professor Gerard	2 00	15.00
Geoffroy St. Hillaire	1.00	8.00	Secretary Stewart	2.00	15.00

Our trade list describes over 75 varieties of these popular plants.

Hardy Vines and Climbers.

Akebia quinata strong 3 in. pots	1.00	6.00	Clematis Paniculata, 3 in. pots	.75	6.00
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Ampelopsis Veitchii strong 3 in. pots	1.25	8.00	Honeysuckles — Halleana, Evergreen and variegated Strong 4 in. pots	1.00	8.00
Aristolochia Sipho, very strong	6 00	45.00	Honeysuckles — Halleana, Evergreen and variegated Strong 6 in. pots	2.00	15.00
Clematis Paniculata, 2¼ in. pots	.60	5.00			

Hardy Herbaceous Plants.

Anthemis Tinctoria	.60	4.00	Gaillardia Grandiflora, 1 year clumps	1.00	8.00
Achillea, The Pearl	.60	4.00	Hollyhocks, 5 distinct colors, 3 in. pots	.75	5.00
Arundo Donax	1.50	10.00	Iris Kaempferi, 10 finest vars	1.50	10.00
Arundo Donax variegata	2.00	15.00	Iris Germanica, 10 finest vars	.60	4.00
Coreopsis Lanceolata, strong 1 year clumps	1.00	8.00	Platycodium Mariesii (New)	1 25	10.00
Corcopsis Lanceolata, 2¼ in. pots	.60	4.00	Tritoma Uvaria Grandifl. clumps	1.25	10.00
Daisy Snow Crest, 2 in. pots	60	5 00			
Delphinium formosum	.75	6 00			
Gaillardia Grandiflora, 2¼ in. pots	.60	4 00			

Imported Budded Roses.

Extra fine plants, strong, 2 years old, budded low on Manetti stocks in the following choice varieties. The prices are good for all orders received before April 1.

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Baron de Bonstettin.	Glory of Mosses.	Madame Chas. Wood.	Queen of Queens.
Baroness Rothschild.	La France.	Mrs John Laing.	Sweet Brier.
Duke of Edinburgh.	Mabel Morrison.	Paul Neyron.	White Baroness.
Fisher Holmes.	Mme. Gabriel Luizet.	Prince Camille de Rohan.	Ulrich Brunner.
	Magna Charta.		Xavier Olibo.

$2.00 per doz.; $12 00 per 100; $110 00 per 1,000.

Alfred K. Williams.	Capt. Christy.	Earl of Dufferin.	Rugosa Alba.
Blanche Moreau.	Countess of Murinais, (Moss).	Persian Yellow.	Souvenir de la Malmaison.
Boule de Niege.	Duchess of Albany.	Rugosa.	

$2 25 per doz.; $15.00 per 100.

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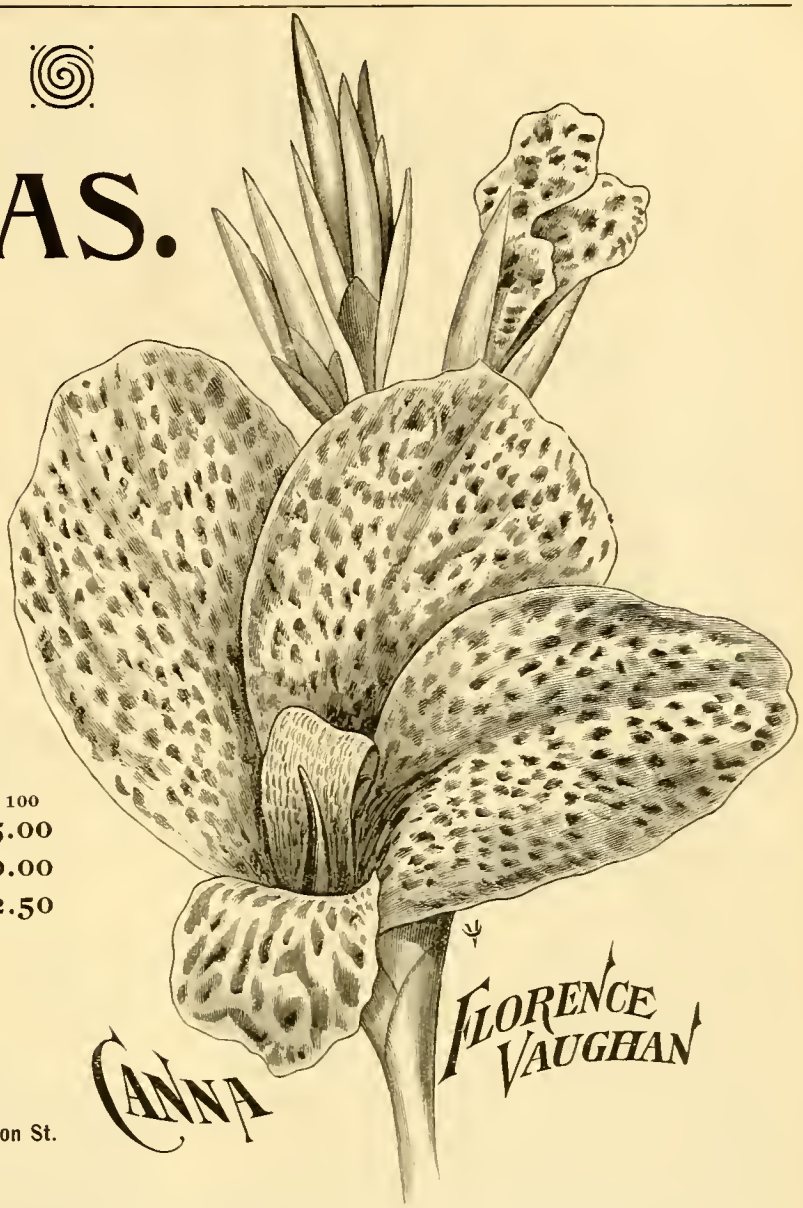
	Per 100
Canna, Florence Vaughan,	$25.00
Calla, Elliott's Little Gem,	10.00
Canna, Alphonse Bouvier,	12.50

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Use our seedling plants, ready in May. They are entirely beyond the tender stages of the begonia—strong plants for three-inch pots.

PRICES: Doubles, $3.00 per hundred; $25.00 per thousand; 90 per cent will be double. Singles, $2.00 per hundred; $18.00 per thousand. These average 5 in. diameter. Success—To insure this, we give best instructions to the inexperienced, free.

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The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to
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Boston.

The indications are that the supply of good stocky plants of longiflorum lilies will be none too large for the Easter demand in this city if the weather should be favorable for the buyers to get out. In fact all the desirable stock has already been placed by the growers and at prices far ahead of those prevailing in New York or Philadelphia. A number of temporary stores have been opened for the retailing of Easter plants and a very busy week is in prospect. Some well-informed do not hesitate to predict one of the best Easters on record (weather permitting). There is an abundance of fine azaleas and unusually well bloomed heath plants besides hydrangeas, genistas and other seasonable stock. On tulips, hyacinths and other bulbous stock in pots and pans Warren Ewell has the trade practically to himself as he is the only grower making a specialty of this class, but he will probably be able to supply all comers.

Cut flowers are in fair supply only. At no time has there been any very serious overstock. During the past week extra good carnations have sold readily at $2 to $4 per hundred and good Daybreaks have brought as high as $5. There are a few candidum lilies being sent in but this lily once so desirable for Easter purposes seems to have completely lost its popularity ever since the prices of Harrisii dropped so low. Violets are abundant and cheap. Astilbe Japonica is in market in quantity and among the novelties are English primroses, golden coreopsis, nasturtiums, etc.

J. J. H. Gregory of Marblehead delivered an interesting lecture on seed growing before the Massachusetts Horticultural Society on March 17. The usual attractive exhibition of cut flowers and plants was made by several exhibitors.

Mr. and Mrs. W. F. Dreer, of Philadelphia have been visiting Boston for a few days.

ROSES.

CATHERINE MERMET, BRIDE, SUPHETOS, BON SILENE, SUNSET, PERLE DES JARDINS, PAPA GONTIER, S. D'UN AMI.
Price, 2¼-inch pots $5 per 100; $45 per 1000.
" 3-inch pots in May $8 per 100; $75 per 1000.
METEOR, $6 per 100; $55 per 1000.
Hermosa. Clothilde Soupert.
Price, 2¼-inch pot, strong, ready to shift in 3-inch pots, $5.00 per 100.

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Rooted Cuttings.

Daybreak..... $3 per 100
Lizzie McGowan, Puritan.
Grace Wilder, Portia,
and many other varieties $2 per 100; $15 per 1000.

Verbenas.

50,000 now ready. Strong and healthy.
Mammoth set unsurpassed. Rooted cuttings—$1.25 per 100; $10.00 per 1000
Mammoth set unsurpassed. 2¼-inch pots—$3.00 per 100; $25.00 per 1000
General collection. Rooted cuttings—$1.00 per 100; $8.00 per 1000
General collection. From 2¼-inch pots—$2.50 per 100; $20.00 per 1000

Coleus.

Verschaffeltii, Golden Verschaffeltii, Golden Bedder, Firebrand, and 25 other varieties, rooted cuttings, $1.00 per 100, $8.00 per 1000

Miscellaneous.

	Rooted Cuttings.	Per 100	Per 1000
AGERATUM, Blue and White		$1 25	$10 00
FEVERFEW, The Gem		2 00	15 00
CUPHEA		1 25	
HELIOTROPE, finest sorts		1 25	10 00
SALVIA SPLENDENS		1 25	10 00

Send for price list.

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Clematis Gen. Grant, or Crimson Jackmanii.

STRICTLY AN AMERICAN SEEDLING, and possessed of qualities not common to foreign grown sorts, namely extreme woodiness and vigor, flowers in racemes of great size, substance, and depth of color; color a maroon crimson changing to a deep purple in the old flowers, and lasting a long time, in several cases over a week in good condition after being cut. This variety will be highly prized when known, on account of its peculiar lasting qualities, and being so well adapted to our hot suns and dry atmosphere—practical florists will understand this.

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Two years $3 per doz.; $22.50 per 100
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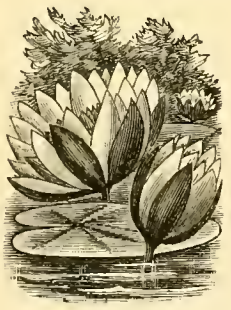
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Manettia Vine, Mex. Primrose & Sultana	"	25 cts.
Red, White & Blue Plant (Cuphea Llavæ)	"	30 cts.

Chrysanthemums, 20c. Coleus, 12c. Postage 1c. a doz.
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6 to 8 feet, straight and stocky.....	$ 7 00	$ 60 00
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10,000 CARNATIONS, from 2½-inch pots. Also 5,000 Rooted Cuttings ready now.
30,000 ALTERNANTHERA, ready April 1st, of all the standard sorts.
700 strings of SMILAX, of which the average length is 7 feet.

Write for prices, as I will sell at a sacrifice to make room for other stuff.

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For beauty, profusion of bloom, and dwarf, shapely habit of growth, the best Pelargonium in existence. Color, upper petals pink, lower white. Price, plants in bud or blossom, $6.00 per 100; by mail postpaid, 90c. per dozen.

FARFUGIUM GRANDE, fine plants, $7.00 per 100; by mail postpaid, $1.00 per dozen.

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The demand for flowers seems to increase in geometrical proportion daily. The death of Mr. Robert J. Halliday, causing the closing of four of our leading florists stores (his own, Halliday Bros., Wm. J. Halliday, and Mrs. M. J. Thomas) for several days, had some effect, in producing for the time being, an apparent though artificial rush of business in the other stores, to which the trade of these four was diverted temporarily. Then the death of a leading theatre proprietor, Mr. Jno. T. Ford, caused a demand for a big lot of roses, lilies, etc,, for though the papers stated "no flowers," the house was packed with magnificent pieces. Besides this spring is coming. Easter drawing nigh, and, with flowers plentiful and cheap, people are beginning to purchase more and more freely for the thousand little occasions which in every ones life occur so frequently.

Speaking of the funerals, probably never before in this city was as large a lot of flowers used at a funeral as at Mr. Halliday's, without one slight deviation from good taste in the entire collection. The decoration of the casket and the room in which it rested at the house, was as a whole beautiful in the extreme. A few choice plants were arranged back of the casket, which was covered with a pall of violets bordered with valley. The inside, as far as could be seen, seemed a couch of pansies upon which rested the dead florist, and the flowers that were placed about quite took away the cold, bare and depressing effect of so many death chambers.

Of the numerous floral tributes sent by friends, with two exceptions all were wreaths or simple clusters. The two exceptions were a standing crown sent by Mr. Wm. Fraser made of La France buds, with a base of lilies, and a large basket from the Gardeners' Club filled with the three favorite flowers of the deceased, azaleas, camellias, and genista. It would be hard to choose between the others, but a wreath of white hyacinths tied with lavender ribbon and a cluster of lavender hyacinths was fine, so was a wreath of violets and orchids, a cluster of roses and mignonette and a wreath of galax leaves and valley.

The officers of the club went to the house in carriages, most of the members each wearing a Perle bud, met the funeral at the cemetery gate and preceded it in procession to the grave. There they opened to the right and left and stood with uncovered heads while the casket and mourners passed through, then following passed by the open grave, each member dropping in the bud as he passed. The grave was lined with smilax and roses, the pile of clay at the side was hidden beneath a net of smilax, roses and violets, and if anything could alleviate the grief of his friends at their loss, it was the fitting way in which he whose life was passed among flowers was gently laid to rest among them at the last. MACK.

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50,000 CALLAS. 500,000 FREESIAS.

Best stock. Lowest prices.

Orders solicited for earliest delivery. Write now for prices and let us look your orders.

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346 S. Broadway, LOS ANGELES, CAL.

ROOTED CUTTINGS AND PLANTS

Of Roses and Chrysanthemums.

Send for price and save money.

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TREES FRUIT AND ORNAMENTAL

Large General Stock of the Best. Surplus in

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EXCEEDINGLY HANDSOME LOT OF

Carolina, Lombardy and Golden Poplars,

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LARGEST ACREAGE OF SHRUBBERY IN THE WEST. VINES, ROSES, PLANTS.

40th Year. 1,000 Acres. 28 Greenhouses.

The STORRS & HARRISON CO. Painesville, Lake Co. Ohio.

500,000 ASPARAGUS ROOTS.

Conover's Colossal, One and Two Years Old.

The roots are very fine and in perfect condition.

Very low rates will be quoted on large lots.

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100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

BIG BARGAINS!

Alternantheras, 100,000 ready, propagated last fall. They are strong and in good shape, far better than little pips that are rooted during the winter.

Geraniums, 6,000 R. C. of the best sorts named.

Fuchsias, Chrysanthemums, $1.25 per 100.

Coleus, best sorts, $6.00 per 1000.

Seedling Smilax, extra fine, 50c. per 100.

PLANTS FROM 2 1-4 AND 2 1-2 INCH POTS.

Geraniums,	Chrysanthemums,
Fuchsias,	Petunias,
Lantanas,	Moon Vines,
Silver Spray and	Portia Carnations,

Verbenas, $2.75 per 100.

Coleus, Alternantheras,	$2.00 per 100
Smilax,	1.75 "
Souv. de Wootton Rose,	4.00 "

10c. per 100 extra on Rooted Cuttings by mail.

Price List on application. Satisfaction guaranteed.

HEITE FLORAL CO.,

1712 LINWOOD AVENUE,

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EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER, QUEDLINBURG, GERMANY.

FOR EARLY CASH ORDERS.

	Per 100	Per 1000
Hardy Day-blooming Moonflower	$3 00	$
Achillea "Pearl," rooted, mail	1 00	7 50
Coreopsis lanceolata, strong rooted plants, mail	1 25	8 00
Eulalia gracillima good roots	3 00	
Hibiscus Crimson Eye, bloom this season	4 00	
Hemerocallis, double, transplanted	2 00	15 00
Iris Kæmpferi, choice mixed, from named sorts	4 00	
Teas' Japanese Hybrid Catalpa, mailing	2 00	
Double Tiger Lily, blooming bulbs	2 00	
Yucca filamentosa, 2 years	4 00	
" Angustifolia, rare and fine, doz. $2.		
Ipomœa paniculata, nice mailing size	4 00	
" " from pots for planting out	3 00	
Oxalis Deppei alba, for summer borders		2 00
" " rosea, " " "		10 00
" Eryphilia purpurea		3 00
" mixed sorts for summer blooming		1 00
" Lasiandra, palmate leaves, crimson flowers	1 50	
Tritoma uvaria	3 00	
Tuberose Albino, branching, orange flow'd	5 00	
" variegated leaved	2 50	
Stapelia variegata	4 00	
Night-blooming Cereus	5 00	
Cannas, mixed, many sorts, strong	2 00	
" several older named kinds	3 00	
Carolina Poplar cuttings, 8 inches		1 00

Lists FREE. E. Y. TEAS,

Irvington, near Indianapolis, Ind.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**

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JARDINIERES, FLOWER POTS, LILY BOWLS, FLOWER HOLDERS and Novelties in Porcelain.

In connection with our Cactus trade we sell thousands of these flower pots, manufactured especially for us in China and Japan.

We can offer them to the trade at prices defying competition.

Many designs are made exclusive for us, and can not be had elsewhere. Our collection can not be equalled in the United States.

50 new designs afloat now.

Send for Illustrated Price List.

A. Blanc & Co.

314-316 N. 11th STREET, PHILADELPHIA.

Catalogue of **1000 Cuts** for florists' use in printing stationery, **25 cents.**



HAVE YOU SEEN IT?

"It is a Wonderful Book." — *D. W. PAYNE, Port Clinton, O.*

"It Leaves Nothing to Add." — *ERNST ASMUS, W. Hoboken, N. J.*

This is what all say of the new book

HOW TO GROW CUT FLOWERS.

If you have not obtained a copy you cannot invest $2.00 of your Easter earnings to a better advantage. Address all orders to

M. A. HUNT, Terre Haute, Ind.

SPECIAL OFFER to the TRADE

50,000 New Yellow Coleus

GOLDEN CROWN, the most hardy, strongest growing, highest colored yellow to date, 2-inch, well grown, $4 per 100; $35 per 1000; 250 at 1000 rates throughout.

10,000 in 12 other standard leading sorts, plants $1.50; rooted 70 cts. per 100.

10,000 Snow Crest Daisies, $3 per 100; $25 per 1000.

30,000 Mam. Verbenas, progressive type, none better.

5,000 of them Climaxers the Peerless crimson bedder.

10,000 seedlings from our XX and XXX progressive seed will give the most splendid new kinds, all perfectly clean and healthy, 3-inch, strong, fine, in bud, $2.50; flats $1.50 per 100, seedlings same rate; special rates per 1000.

5,000 Vgt. Vincas, extra fine, 3-inch $3; flats $1.50; rooted $1 per 100.

5,000 Giant Scabiosa Snowball, per 100 $1.50; seed, 25c. for large trade packet.

10,000 Gibson's sweet scented hybrid pansies, flats $1; frame $2 per 100; seed ⅛ oz. 50c., ¼ oz. $1, ½ oz. $1.60.

5,000 Gem Feverfew, 5,000 Golden Marguerites, 5,000 Dwf. Lobelias, 5,000 Goldeo Feather and C. Gymnocarpa, the last two seedlings small pkts. $1 50, rooted cuttings 75c. per 100.

Double Petunias. Dreer's new '93 set and the Queen the best all round double white, rooted, named, labeled, $2 per 100.

Mexican Primrose, three novelties, named, rooted $1 per 100.

30,000 Eulalia Zebrina and Japonica, potting size $2 50 per 100.

5,000 Torenia Fournieri, seed pan 50 cts., from flats $1 per 100.

Lots of other good things. Write for what you want. Premium offer for every $5 order: We will put in free 6 Giant Nerana Verbena and 1 Golden Strand Coleus; doubled on every $10 order, and 1 Dak. Primrose, 1 pkt. Double Petunia and 1 pkt. Scabiosa snowball when desired. Price list free. Address, cash with order please.

J. C. GIBSON, Woodbury, N. J.



Latania Borbonica.

We are in receipt of a second consignment of fresh seeds of this useful and popular Palm. This seed being freshly band picked is sure to germinate, get your supply NOW! as this is the last lot which we will have to offer this season. Price: 60 cts. per lb. by mail; 40 cts. per lb. in lots of 5 lbs. or more by express or freight. On lots of 500 lbs. or over write for special prices.

DRACÆNA CANES to arrive soon; Brasiliensis, very broad, deep green leaves; Ferra, the best dark red; Fragrans, the standard sort for decorating. On these we will be able to quote lowest prices by the 100 or 1000 feet.

DWARF FRENCH CANNAS in good assortment, $3 per 100, $25 per 1000.

Send for our Descriptive Catalogue if in need of budded Orange or Lemon trees, Tropical Fruits, Palms or Water Plants; make your wants known and we will give you lowest prices.

THE AMERICAN EXOTIC NURSERIES, R. D. Hoyt, Mgr., SEVEN OAKS, FLA.

HERRMANN'S SEED STORE

413 East 34th Street,
Near Long Island Ferry, NEW YORK.

MIGNON ASTER.
The Best for Cut Flowers.
PINK WHITE. PER OZ. $1.50.

PRICE LIST FREE ON APPLICATION.

WANTED.

5000 Violet plants in exchange for

Adiantum Capillus-Veneris,	2-inch, $5.00 per 100
Nephrolepis Exaltata,	3-inch, 7.00 per 100
" "	4-inch, 10.00 per 100

State varieties, in what condition, etc.

JOHN IRVINE GREENHOUSE CO.,
BAY CITY, MICH.

BY THE THOUSAND.

Arancaria Excelsa and Glauca, Aspidistra, Palms, Phormiums, Bay Trees —crowns and pyramids of all sizes.

Packing free for cash with order.

The Nurseries, JULES DE COCK,
LEDEBERG, near Ghent, BELGIUM,
OFFERS AS SPECIALTIES:
Gloxinia, Bulb Begonias, extra varieties.

We Pay the Express.

100,000 PANSIES,

grown from seed that has no superior, strong, stocky plants once transplanted, 60c per 100; $4.50 per 1000.

MAMMOTH VERBENAS in all the most brilliant colors, 70c per 100; $5.50 per 1000, delivered free at your door.

S. WHITTON & SONS, Wholesale Florists,
9 & 11 Roberts St., UTICA, N. Y.

Mention the American Florist when writing to advertisers on this page.

Toronto.

The weather being favorable the plant trade continues to boom in a mild way and retailers have a more cheerful tale to tell when one drops in to see them. Azaleas are now in full blast, but I hear that one florist has made a cut of from 50 to 75 cents, on $1.25 and $1.50 plants, which was altogether unnecessary and does nothing but injure the trade generally. It does not seem likely that the Easter prices of former years will be nearly reached, but it is possible that the volume of trade may be considerably larger in consequence. I notice a card up at one store to the effect that Easter orders will be booked now (15th) at present prices. "Things ain't what they use ter was"; it is a case of "sauve qui peut" and the devil take the hindermost now with some people.

Bermuda lilies are likely to be plentiful and the price is already cut down to a low notch. However putting things altogether there is likely to be a big lot of "stuff" handled in Toronto this Easter and good "stuff" too, but it is doubtful if those handling it will profit as much as they did in "the good old times" one reads about. I am not conservative enough to wish "the good old times" back again but I think the boys could make more money than they are doing if they would put their heads together.

E.

SMILAX.

CUT SMILAX—Half an acre ready to cut now. Quality A 1.

EASTER ORDERS BOOKED NOW.

SMILAX PLANTS—Extra strong 1 yr. old, $2.50 per 100; $20.00 per 1000.

TRANSPLANTED SEEDLINGS—$1.00 per 100; $8.00 per 1000.

SMILAX SEED—A few ounces left; crop of 1893, at 50c. per ounce.

JOS. E. BONSALL,
WHOLESALE FLORIST,
308 Garfield Avenue, SALEM, OHIO.

Rooted Cuttings.

COLEUS, 10 kinds by mail.....60c per 100
" 12 kinds by express..$4.00 per 1000
VERSCHAFFELTII and SHELLY YELLOW.....$5.00 per 1000
ALTERNANTHERA P. Major and Aurea Nana, by mail.....50c per 100
CUPHEA (cigar plant), by mail...50c per 100
PILEA (artillery plant), by mail...50c per 100
FUCHSIA, mixed.....$1.00 per 100

CASH WITH ORDER.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

Mention American Florist.

CARNATIONS.

	Per 100	Per 1000
Rooted Cuttings, standard vars.	$1.00	$9.00
Newer kinds and novelties $3.00 to $12.00		

CHRYSANTHS.

Standard varieties		$1.00
Newer kinds and novelties, $2.00 to $5.00		
AGERATUM and ALTERNANTHERA	60c.	$4.00
COLEUS and VERBENAS	75c.	$6.00

For other stock see list

JOHN J. CONNELLY,
BRYN MAWR, PA.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Our New Scarlet Carnation

GENEVA

We will have ready for delivery April 1st.

This is undoubtedly the finest red yet introduced. In color it is a bright scarlet, strong grower with good long stems, does not break in the calyx, is fragrant, blooms from September to May, is not a cropper and **blooms fully as freely as Silver Spray.**

We are booking orders now for April 1st delivery, at $12.00 per 100.

We also have all the leading varieties, including Daybreak at $2.50 per 100, Edna Craig at $5.00 per 100, Wm. Scott at $5.00 per 100, Uncle John at $10.00 per 100, Silver Spray at $2.00 per 100, Lizzie McGowan at $2.00 per 100, Garfield at $1.50 per 100, Tidal Wave at $1.75 per 100, Portia, Hector and Lady Emma at $1.25 per 100.

YOUNG ROSE STOCK

Bridesmaid.

Young stock, fine and healthy, from healthy, cool grown stock, now ready at $6.00 per 100; $50.00 per 1000.

OUR NEW PLANT TUB.

PRICE LESS THAN HALF OF ANY OTHER TUB ON THE MARKET.....

Florists having large plants should not be without it.
Dealers issuing catalogues cannot afford to be without it.

IT SUPPLIES A LONG FELT WANT FOR SOMETHING

Neat, Durable and Cheap.

It has steel wire hoops (three times as strong as the flat iron hoop) with welded joints (not riveted as in common ware). These wire hoops are at intervals indented and pressed into the wood. These indentations in hoops, besides preventing them from falling under all circumstances, act also as a spring, expanding or contracting always in accord with the condition of the wood in the tub, so that bursting is impossible. **Write us for Prices.**

Cut Flowers. Florists' Supplies.

WE MAKE OUR OWN WIRE WORK. GIVE US A TRIAL.

Wisconsin Flower Exchange,

468 Milwaukee Street, - - - MILWAUKEE, WIS.

Palms. Latania Borbonica.

The best stock from 5 in. pots in the country, 5 to 7 good leaves, 24 to 28 in. high, $50 00 per hundred, $6.50 for sample dozen.

LATANIAS. From 2¾ in. pots, good stock for growing on, strong rooted and clean. $8.00 per hundred, $1.25 for sample dozen.

CROTONS. From 3 in. pots, 10 sorts, all good colors and varieties. $8.00 per hundred.

From 4 in. pots, 10 sorts, $15.00 per hundred.

Large plants from 5 and 6 in. pots, $4.00 per dozen.

Are a success as a plant for fine foliage beds, will stand the sun and hold their color better than anything in the way of Variegated Foliage, fully tested at Chicago, Washington and Philadelphia parks.

TUBEROSES. Extra double pearl, $12.00 per thousand.
" Fine " " 10.00 " "
" Good blooming bulbs, 7.50 " "

The bulbs are all sound and well cured.

B. P. CRITCHELL & CO., = = Cincinnati, O.



SHEEP FERTILIZER

Best Fertilizer Known. Pure, Natural.

Rich in all properties; essential to plant growth; endorsed by all leading growers in the United States and Canada. Packed in 100 pound bags.

The concentrated nature of this manure renders it most easy and economical of shipment.

Sold by all Seedsmen and by

JOHN J. PETERS, Mfr.,
39 Borden Ave. & Dutch Kills,
. . . LONG ISLAND CITY, N. Y.



Sure Death

To greenfly, blackfly, mealy bug, red spider, scale, bugs, ants, etc., when following directions. No disagreeable odor; harmless to the skin; the best wash for palms, also for pet dogs and birds; should be in every household.

Every live Seedsman should keep it on sale; every florist should use it. To be dissolved with from five to twenty parts of water; full directions with each can. Put up in 10 gallon, 1 gallon and 1 quart tins. Price $3.25 the gallon, $1 the quart.

We are the Manufacturers' **Sole Agents** and **General Depot** for America.

August Rölker & Sons,
New York, 136 and 138 West 24th Street.

Big Crops of Healthy Roses and Carnations

Can only be secured by a judicious and constant use of **FOSTITE**, pronounced by leading Florists. "The best remedy for mildew on Roses and Carnation Rust," best applied by Joosten's Magazine Bellows, pronounced the "Boss of all Bellows."

Fostite 25 lbs. $2; Bellows, $3.50. Sold by the trade, and by

C. H. JOOSTEN, 3 Coenties Slip, NEW YORK.

Ipomœa Pandurata.

(HARDY DAY-BLOOMING MOON FLOWER)

Northern grown roots, at $2.50 per 100; $18 per 1000

ACHILLEA THE PEARL, field-grown, $1.00 per 100; $6.00 per 1000.

HARDY PHLOX, $4.00 per 100.

JAMES FROST, Greenville, Ohio.

Special in Geraniums

Fine plants in 2, 3 and 4-inch pots by the hundred or thousand. Write for Prices.

GEO. A. KUHL, Pekin, Ill.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.
. . . HARRISBURG, PA.

Ottawa, Canada.

ED. AM. FLORIST: In a recent issue you publish a letter from this city signed "M" which I must say is the nicest collection of trash I have read for some time. I feel hurt that you should be imposed upon. We have here at the capital a number of such correspondents and the reports they send to American papers are often disgusting. I care not what they write about politics but when they try this same game among florists I object.

If not taking too much space permit me to deal with his letter clause by clause, as they say in the city council. Passing his remarks about the great number of florists and other branches of the fraternity (as if every man who carried a spade was a horticulturist), he says the Experimental Farm takes in 1,000 acres. It does not amount to half that. Then he describes the vast amount of flowers required by Lady Aberdeen and society generally and that Chicago and New York have to be drawn upon for the finest blooms. I will buy him a new hat if he can prove that one box has been imported from Chicago this winter or last, and as for New York I got one box, and I am sure the other two florists did not get more. There are no standing orders with the wholesaler. When we are pinched Dale or Dunlop generally fills the bill.

Then he goes on to describe the opening of parliament. A great floral display is ordered. Here Chicago again comes in. Her Ladyship's dress is coming from Paris, with a train 20 yards long, borne by a score of gilt edge pages. Cæsar's Ghost! Where did he find all that out? Her Ladyship is a great admirer of orchids, and the Windy City is going to be drawn on so heavy. The floor of the chamber is to be strewn with flowers, etc., etc. I happen to be the florist that supplies the flowers for Government House and so far have been only called upon three times to decorate for a dinner, and they were by no means elaborate, and the steward of the house has got to know about the cost before we begin. If there was to be any such extravagance as "M" describes I think I would know something about it.

As for the rest of his trash I will dismiss it by moving him a vote of thanks for his taffy. We are all good fellows are we? Shake? We are certainly proud of our city as a whole, but don't like to blow about it. Population fifty thousand and but a small proportion are flower buyers, who generally go to the sea shore for the hot months, and with the exception of a few flowers and a funeral piece now and again, the florists have the rest of their time to repair and prepare for winter.

C. SCRIM.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

CHRISTMAS ROSES.

(*Helleborus niger.*)

FINE STOCK PLANTS, per 100, $8.00.

EVELYN ARNOLD,

GRAND RAPIDS, MICH.

ROOTED CUTTINGS

OF All Description

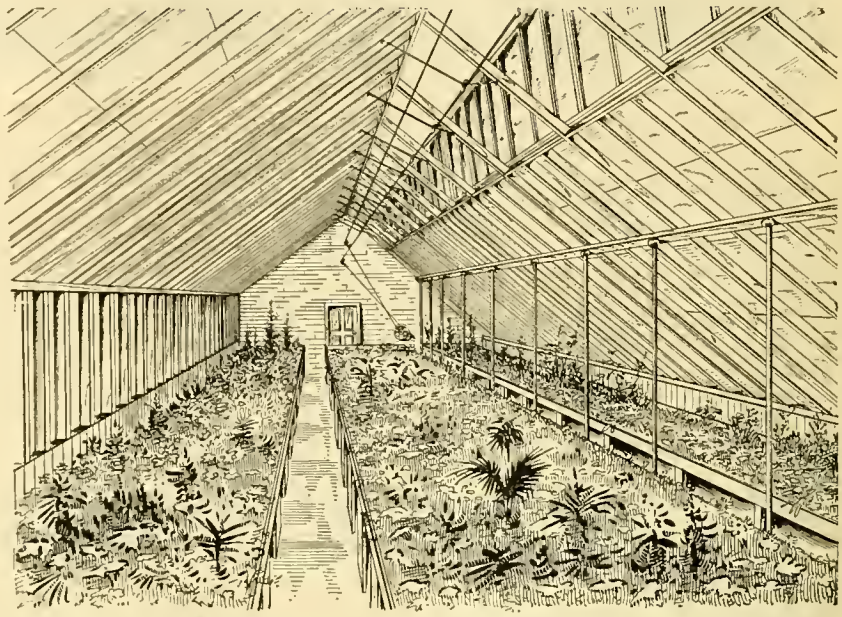
Verbena, Heliotrope, Fuchsia, Coleus, Petunia double white and variegated, Geranium Mt. of Snow, Mme. Salleroi, flowering Cala. pink, Othonna, German Ivy, Tradescantia, variegated and zebrina, Carnations etc. $1.00 per 100.

Chrysanthemums. Wholesale Cut Flowers.

ADDRESS F. A. HAENSELMAN,

Denver City Nurseries, Box 201, South Denver, Colo.

THE CHAMPION



AUTOMATIC · VENTILATOR.

The cheapest, easiest to operate, and by far the **best machine** in the market. No shafting used in its construction. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.** Address

E. E. WOLF,

BOX 114 SPRINGFIELD, OHIO.

ESTABLISHED 1866.

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MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST. NEW YORK.

Red Cedar Posts

in all sizes and lengths, sawed square, for walls and benches of greenhouses, shipped in full car loads or small lots as desired.

Money Wasted

by using cheap posts, for they soon rot out and then the house must be rebuilt. Square Red Cedar Posts cost a little more but they will last fifty years.

Time Wasted

when you try to make a straight wall with round and crooked locust posts, and this makes them more expensive than red cedar and at that, they do not make so neat a job. All things considered, there is no other post so good or so cheap as Square Red Cedar.

Write for prices delivered at your station.

Lockland Lumber Co.

LOCKLAND, OHIO.

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J. N. STRUCK & BRO.

Manufacturers of

· CYPRESS ·

Greenhouse Material,

LOUISVILLE, KY.

Mention American Florist.

Send orders for . . .

CLEAR CYPRESS

Greenhouse Material

from bottom of gutter up.

Correspondence solicited. Estimates cheerfully furnished.

LYMAN FELHEIM, ERIE, PA.

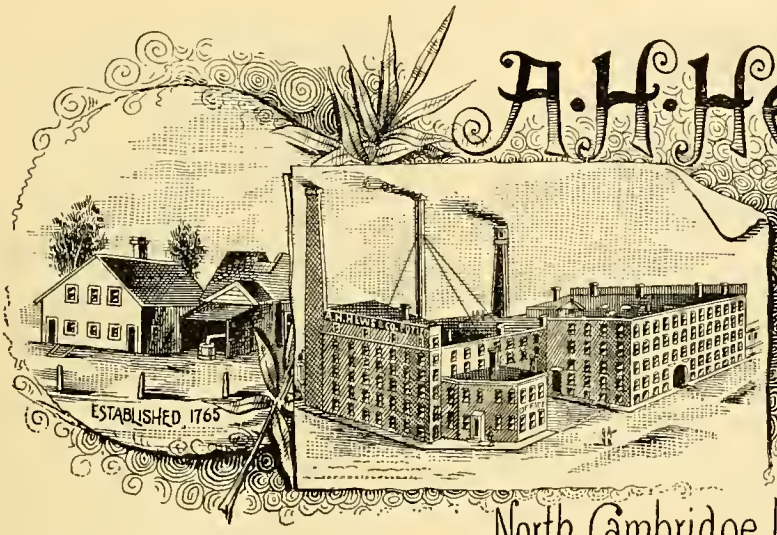


Kills Mildew and Fungus Growth. What does?

GRAPE DUST.

Sold by Seedsmen.

Mention American Florist.



A. H. HEWS & CO.

MANUFACTURERS OF

Fancy Earthen Ware and Flower Pots

North Cambridge, Mass.

STANDARD FLOWER POTS.

We Have the Largest Plant for the Manufacture of Flower Pots in the World.

Do not wait two or three weeks in the busy season for the small potteries to fill your orders with half burned pots.

WE CAN SHIP **200,000 POTS DAILY.** FOR THE BALANCE OF THE SEASON.

We guarantee every 1,000 pots to count out ten hundred after they are potted and put on the benches. Send for quotations stating sizes and quantity wanted.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

Send for illustrated catalogue to

THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
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THE ASSOCIATION FLORA,

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NOW ON HAND IN NEW YORK:

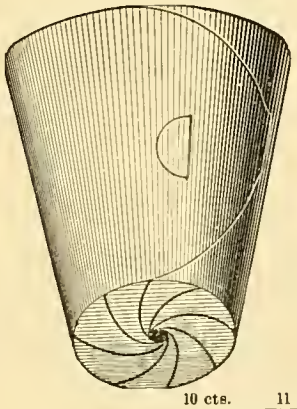
CLEMATIS in sorts, 3 years.....per 100 $25.00
SPIRÆA JAPONICA " 4.00
DIELYTRA SPECTABILIS..... " 4.00

Lilium speciosum, Pæonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9.00: Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.
Mention American Florist

NEPONSET • FLOWER • POTS

of Waterproof Paper, light, durable, unbreakable and cheap.



Tomato Growers have used them with success and proved their appreciation by repeated orders.
Cabbage Growers have tried them and duplicated their orders.
Market Growers of Verbenas, Alyssum, Coleus and other plants, which do not shun moisture, have used them extensively in repeated seasons.
Recommended for light and safe packing of tender and valuable plants, for the marketing of Ferns, Dutch Bulbs, Lily of the valley and the like.
Cost about 40 per cent less than earthen pots, and weight considerably lighter, thus saving in first cost and freight.

For Price List and further particulars address

Wholesale Agents:
AUGUST ROLKER & SONS, Station E, New York.
R. & J. FARQUHAR, - - - - Boston, Mass.
Who furnish samples, by mail, postpaid, on receipt of

	10 cts.	11 cts.	14 cts.	17 cts.	22 cts.	40 cts.	60 cts.
For 1 dozen	2¼-in.	2½-in.	3-in.	3½-in.	4-in.	5-in.	6-inch pots.

F. W. BIRD & SONS, Sole Manufacturers, EAST WALPOLE, MASS.

GRAPE VINES.

(FOREIGN.)

All the leading varieties for cultivation under glass, in following sizes: 1 year, 2 years, and extra strong. Also **Peaches and Nectarines** specially prepared for forcing in pots and tubs. Orders booked for specially prepared fruiting plants of Vines, Nectarines, Peaches, Strawberries, Fall of '94 delivery.

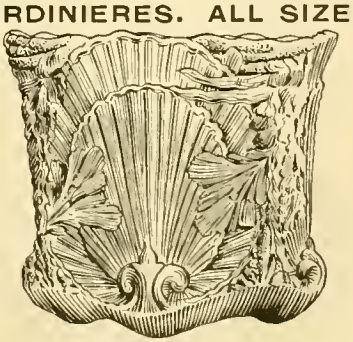
JOHN G. GARDNER,
Jobstown, N. J.



They Don't Break. Sold by all Dealers.
W. B. CLEVES, Pat. & Mfr., Binghamton, N. Y.

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JARDINIERES. ALL SIZES.



J. M. YOUNG & CO., 37 & 39 Murray St., NEW YORK.

Express Rates.

Below appear extracts of trade interest from the classification adopted jointly by the following express companies:

ADAMS EXPRESS COMPANY,
AMERICAN EXPRESS COMPANY,
NATIONAL EXPRESS COMPANY,
NORTHERN PACIFIC EXPRESS COMPANY,
PACIFIC EXPRESS COMPANY,
SOUTHERN EXPRESS COMPANY,
UNITED STATES EXPRESS COMPANY,
WELLS FARGO & COMPANY'S EXPRESS.

PLANTS—Completely boxed, and packed so they may be handled without extra care, general special rate. Between points where no general special is in force, plants packed as above may be taken at 20% less than merchandise rate, pound rates; minimum charge 35 cents, prepaid or guaranteed.

SHRUBS—For setting, when boxed or baled and strawed, prepaid or guaranteed, general special rate. Between points where no general special is in force, shrubs may be taken at 20% less than merchandise rate, at pound rates; minimum charge 35 cents. This applies only to points reached by rail.

TREES—For setting, when boxed or baled and strawed, prepaid or guaranteed, general special rate. Between points where no general special is in force trees may be taken at 20% less than merchandise rates, at pound rates; minimum charge 35 cents. This applies only to points reached by rail.

[The general special rates are usually about 20% less than merchandise rate, so the special reduction is 20% less than merchandise rate to all points.]

SEEDS may be carried between all points at merchandise rates (pound rates); minimum charge, 50 cents, for each company carrying, unless graduate rate or section D rates are less. But the above will not apply to exclusive offices of Wells, Fargo & Co. west of Ogden and El Paso.

SECTION D.—PREPAID RATES—For manufacturers, publishers and dealers, to railroad points only, within the United States and Canada.

The following articles may be carried at *10 cents for each 1½ lbs., or less*, and for single packages *exceeding 1½ lbs., one cent for each additional two ounces or fraction thereof*, unless the graduated rate is less. If the through rate exceeds $8.50 per 100 lbs., no package weighing over 4 lbs., except single books, will be carried at these rates.

[We extract from the list the items of trade interest as below.—ED.]

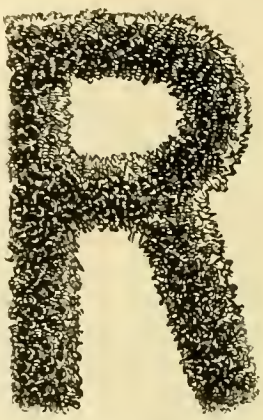
BULBS, ONION SETS, SCIONS,
CATALOGUES, PLANTS, SEEDS,
CUTTINGS, ROOTS, SHOW CARDS.

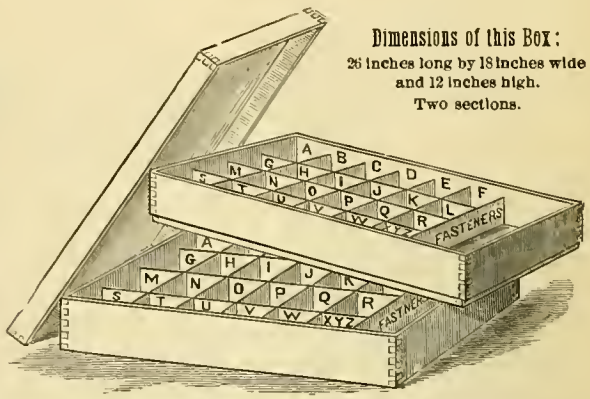
NOTE.—Packages of bulbs or seeds exceeding 40 ounces in weight, 4 cents per package less than rate of ½ cent per ounce, unless regular graduate is less. When graduated or other rates quoted in this card are less than these, they should be applied. When shipments are ordered returned these rates apply.

Rate of Postage on Seeds, Plants, Etc.

We give below an exact copy of Rule 41 from the Official Postal Guide for 1894.

"By the act approved July 24, 1888, the postage on seeds, cuttings, roots, scions and plants is at the rate of one cent for each two ounces or fraction thereof. Dried plants, fruits and cut flowers are subject to the rate of one cent per ounce."





This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

N. F. McCARTHY, Trees. & Mangr. | Address 13 Green St., Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS:

A. Rolker & Sons, New York.
Marschuetz & Co., 25 N. 4th St., Phila., Pa.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
A. Herrman, 415 E. 34th St., New York.
Ernst Kaufmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont., Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St, Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
D. B. Long, Buffalo, New York.
C. F. Huntington & Co., Indianapolis, Ind.
Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.
Portland Seed Co., 171 2d St., Portland, Ore.
A. Herman, 415 E. 34th St., New York.
Geo. A. Sutherland, 67 Bromfield St., Boston.
Welch Bros., No. 1A Beacon St., Boston.
N. F. McCarthy & Co., 1 Music Hall Place, Boston.

These Letters are handled by all the Wholesalers in Boston.

Fenster Pappe, the new German substitute for glass on frames. For detail see our Catalogues. We furnish original Rolls of about 110 yards for $9.00 net cash. Trial Rolls, enough to cover four sashes for $1.00 cash; these latter will travel by express for little cost, weighing below 10 lbs.

Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

Metal Designs, the best winter cemetery decoration, in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.

Supplies of all Kinds, such as Immortelles, Cape Flowers, Wheat Sheaves, Flower Baskets, Pot Holders, Plant Stands, Fern Dishes, etc., etc.; all quoted in our beautifully and richly illustrated new Trade List mailed free. Address

August Rolker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**

HUNTINGTON SEED CO.
Florists' : Supplies,
66 E. WASHINGTON ST., INDIANAPOLIS, IND.
Standard Flower Pots, Dried Grasses, Fancy Baskets Metal Designs. Trade Catalogue mailed free.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Buy your FLORISTS' SUPPLIES of
ERNST KAUFMANN & CO.
113 North 4th Street,
PHILADELPHIA, PA.
We Manufacture our own Goods and are large Importers.

WE SOLICIT A TRIAL ORDER IN
Wheat Sheaves, Metallic Designs, Celluloid and Fancy Baskets, Cycas Leaves, Cape Flowers, Bouquet Papers, Pot Covers, or anything you may want in that Line.

MEDAL AWARDED at World's Columbian Exposition.
Send for Catalogue.



WHITE DOVES
FOR FLORISTS.
Largest and finest stock in the United States. Write for prices to
S. J. RUSSELL,
850 Montgomery St., Jersey City, N. J.

FOR SALE BY:—A. Herrmann, F. E. McAllister Reed & Keller, N. Steffens, New York; W. C. Krick Brooklyn, N. Y.; H. Bayersdorfer & Co., Phila.; J. M. McCullough's Sons and H. L. Sunderbruch, Cincinnati, O.; J. M. Gasser, Cleveland, O.; D. B. Long, Buffalo, N. Y.; J. C. Vaughan, Chicago; Wisconsin Flower Exchange, Milwaukee; Wm. Ellison, St. Louis; Ed. S. Schmid, Washington, D. C.; G. W. Currey & Co., Nashville, Tenn.; T. W. Wood & Sons, Richmond, Va.; U. J. Virgin, New Orleans, La.; C. A. Kuehn, St. Louis; N. F. McCarthy & Co., Boston, Mass.

MARSCHUETZ & CO.,
Florists' Supplies,
23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.



THE ONLY POTTERY IN THE UNITED STATES

Making a Specialty of FLOWER POTS.

WAREHOUSES:
Jackson Avenue and Pierson Street, LONG ISLAND CITY, L. I.
Randolph Avenue and Union Street, JERSEY CITY, N. J.

FACTORY:
713 to 719 Wharton St., PHILADELPHIA, PA.

LAWN VASES.

We have a new style of Vases, largest in the market for the money, holding from three pecks to over one bushel of soil, ornamented with vine and leaves, suitable for cemeteries, parks and cottage grounds, which we offer at the following prices for cash f. o. b.

17x18 inches $1.00 each; extra base 11 inches high 50 cents each.

20x22 inches $1.50 each; extra base 13 inches high 75 cents each.

Parties ordering six or more vases will be allowed 25 per cent discount. One florist last spring filled with plants and sold 25 vases.

Address **HILFINGER BROS. POTTERY,**
. . **Fort Edward, N. Y.**

August Rolker & Sons, 136 & 138 W. 24th St., New York City, Agents for New York.

Standard Flower Pots.

25 PER CENT. OFF for cash with order until further notice. A large stock on hand of good, strong pots. **PRICE LIST, for any number:**

1¾-inch pots, per 1000,	$3 00		3½-inch pots, per 1000,	$7 25	
2 -inch pots, "	3 25		4 -inch pots, "	9 00	
2¼-inch pots, "	3 50		5 -inch pots, "	13 80	
2½-inch pots, "	4 00		6 -inch pots, "	22 00	
-inch pots, "	5 00		7 -inch pots, "	35 00	

HILFINGER BROS. POTTERY,
Largest in the State. **FORT EDWARD, N. Y.**

August Rolker & Sons, 136 & 138 W. 24th Street, New York City, New York Agents.

Mention American Florist.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. **OFFICE:** 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. **East Brookfield, Mass.**

Mention American Florist.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

NASHVILLE, TENN.—Mr. Joe Browne has purchased the greenhouse business of the late L. C. Lischy and will conduct same under the title "The Lischy Greenhouses." Mr. Brown was general manager for Mr. Lischy for over twenty years, so there is practically no change in the management.

BANGOR, ME.—John Sheehan a well-known gardener, died on Thursday, March 8. Messrs. J. G. Dunning, G. G. Dunning and James A. Dunning have formed a copartnership in the seed business at Mercantile Square.

YOU CAN never invest $2 to better advantage than in a copy of our trade directory and reference book.

Do You Intend to Build

THIS SEASON?

In these days of Low Prices and Sharp Competition

ECONOMY is the FIRST CONSIDERATION.

Poor Quality GLASS is no Economy. We can give you glass which is **Absolutely Perfect for**

Modern Greenhouse Construction.

ROCK BOTTOM PRICES.

Send for Estimate.

Satisfaction Guaranteed

REED GLASS CO.,

65 Warren Street, and 46, 48 & 50 College Place,

NEW YORK CITY.

CYPRESS GREENHOUSE MATERIAL

CLEAR CYPRESS SASH BARS

HOT BED AND VENTILATING SASH

JOHN C. MONINGER,

297 Hawthorne Ave.,

CHICAGO, ILL.

History Repeats Itself.

The Historical Words "YOU GIT! YOU BET!" reversed.

You bet you git the best workmanship, the clearest lumber and the greatest value for your money when you send us your orders for

CLEAR CYPRESS GREENHOUSE MATERIAL.

We have had eleven years experience in this line. We introduced Cypress for greenhouse construction. We have made many improvements in the construction of greenhouses. We carry in stock many different designs of Rafters and Sash Bars, and everything else from the bottom of gutters up. Our facilities are large and we are prepared to furnish on short notice material of our own designs or any special designs you may want, and all of open-air-dried spot clear Cypress Lumber which we have bought for many years of one party at $4.00 to $5.00 per 1000 feet above the price of Cypress generally used, because this particular growth of Cypress is as soft and as free from warping as White Pine and has none of the knots, sap and other defects so common to White Pine. Every foot of our stock is guaranteed Spot Clear. Write for circulars and estimates. No trouble to furnish plans when necessary.

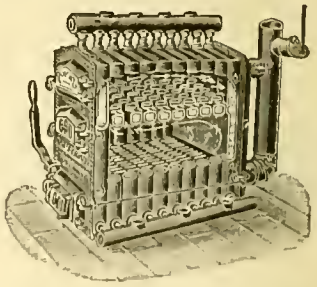
LOCKLAND LUMBER CO.,

Lockland, Ohio.

SOLD ON THEIR MERITS AND NOT ON THEIR ANTIQUITY.

ROYAL HEATERS

THE RIGHT KIND of BOILER for a GREENHOUSE.



HART & CROUSE,

UTICA, N. Y.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS,

FOR GREENHOUSES.

Write for latest prices.

Mention American Florist.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

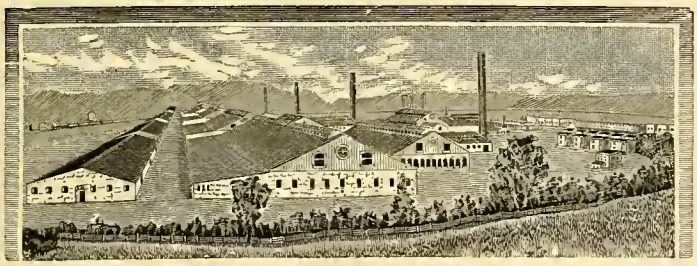
VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building

NATURAL-GAS-MADE



OUTSIDE VIEW OF FACTORY.

GLASS

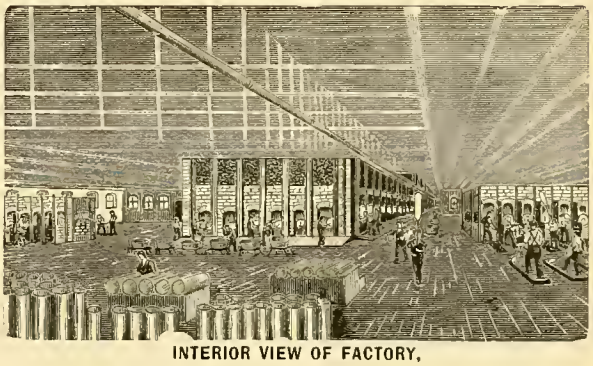
FOR

Rose Houses, Conservatories,

ETC.

D. H. ROBERTS,

159 to 161 South Fifth Avenue,



INTERIOR VIEW OF FACTORY.

NEW YORK.

DEPOT FOR THE FAMOUS

Chambers & McKee Glass Co.'s Glass.

Mr. W. A. Burnham of the Lord and Burnham Co. delivered a lecture before the Massachusetts Horticultural Society on Saturday, Feb. 16th, his subject being "Greenhouse Construction." He spoke highly of American glass, the manufacture of which has now reached a high state of perfection, the double thick glass averaging nearly ten per cent. thicker and stronger than the French glass, which in a hail storm may easily mean the difference between a broken roof or one that stood the storm. **The Lord & Burnham Co. buy our Glass.**

Zion Gardens.

"Zion Gardens, Steward —— ——, Plants, flowers and Salads," is the wording of a sign to be seen in a Canadian city. On Saturdays the steward hangs out another sign which reads: "Visitors welcome every day but the Sabbath, which is the Lord, thy God's."

But sad to relate the steward was recently fined for transgressing a municipal law against working on the Sabbath. He said that if he was a Jew he had committed no sin but that if he was not then he had sinned. After this presentation of the case the magistrate fined him anyway to make sure. R.

R. W. CARMAN, Flushing, L. I.

Dear Sir:—Please send us by Star Union Line Freight (Pennsylvania Line), another 5 gallon can of Little's Antipest. We are not yet out, nor do we want to get out of it, for we think it indispensable and have sent you several customers by recommending it. Please hurry it through.

Very truly yours,
THE GOOD & REESE CO.

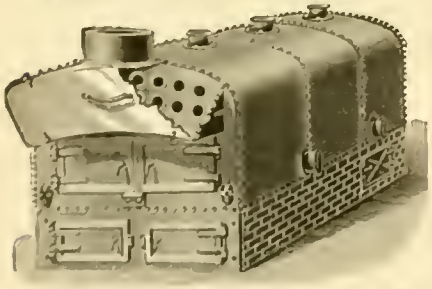
BROOKLYN, N. Y., Jan. 15, 1894.

R. W. CARMAN.

Dear Sir:—Please send me 2 gallons of Little's Antipest. Have used your Antipest with great results last season. I was troubled considerably with the large black ants in Greenwood Cemetery, but by using your Antipest drove them all off. Have also used it on all kinds of soft and hard wooded plants, with the best results. I would also suggest to you to send circulars of your Antipest to the different Supt. of cemeteries, also to florists who attend to plots in the cemeteries, as it will save them trouble and annoyances from the black ants who destroy plants and mounds.

Yours truly, CHAS. KROMBACH.

Kroeschell Bros. Co.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox heets and heads of steel, water space all around front, sides and back). Write for information.

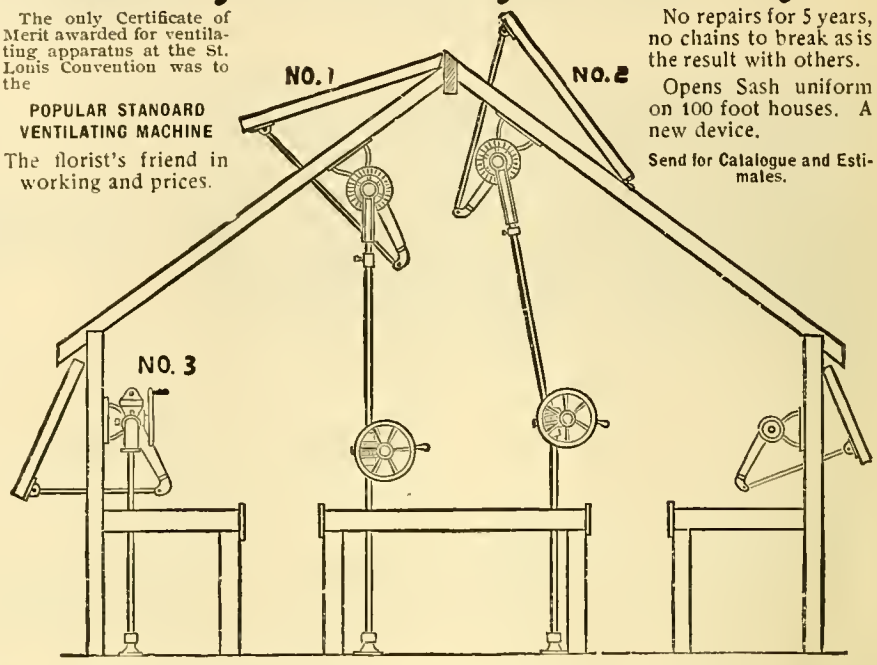


IRON
Reservoir Vases,
Lawn Settees,
and Chairs
Are Manufactured by
McDONALD BROS.
COLUMBUS, OHIO.

The largest manufacturers of these goods in the world. We issue a large 80 page illustrated catalogue, which will be sent free on application. Mention Am. Florist.

Victory! Victory! Victory!

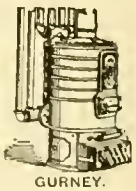
The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the
POPULAR STANDARD VENTILATING MACHINE
The florist's friend in working and prices.



No repairs for 5 years, no chains to break as is the result with others.
Opens Sash uniform on 100 foot houses. A new device.
Send for Catalogue and Estimates.

E. HIPPARD, Youngstown, Ohio.

Gurney
HOT WATER
HEATERS AND RADIATORS
FOR HEATING
Dwellings, Public Buildings, Etc.
BY
HOT WATER CIRCULATION.


GURNEY.

Best for Greenhouses.
Our illustrated book "How best to Heat our Homes" gives the reason why. We send it free.
THE BEST IS CHEAPEST.

Gurney Hot Water Heater Co.
HEAD OFFICE:
163 Franklin St., Boston, Mass.
BRANCH OFFICE:
59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES:
Johnson & Co., 71 John St., New York.
J. C. F. Trachsel, 246 Arch St, Philadelphia.

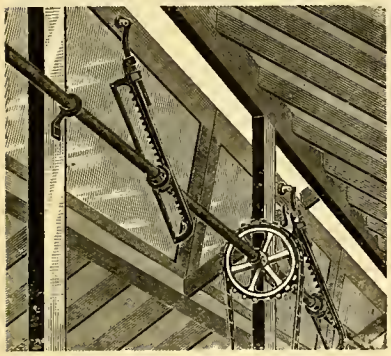

DOUBLE CROWN.



FURMAN BOILERS
Economical — Substantial — Safe.
56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.
Modern Hot-Water Heating
These Boilers have a high reputation for Staunchness, Durability and Safety, and are GREAT COAL SAVERS. Minimum Friction and Maximum Velocity only obtained by VERTICAL WATER CIRCULATION. Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.
Address HERENDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.

Mention American Florist.

THE MALTESE CROSS BRAND
THE VERY BEST OF GARDEN & LAWN
HOSE
TRADE MARK
if your dealer does not have it send direct to the manufacturers
35 Warren Street, NEW YORK.
The Gutta Percha & Rubber Mfg. Co. 170 Lake Street, CHICAGO.



The New Department on Duty.

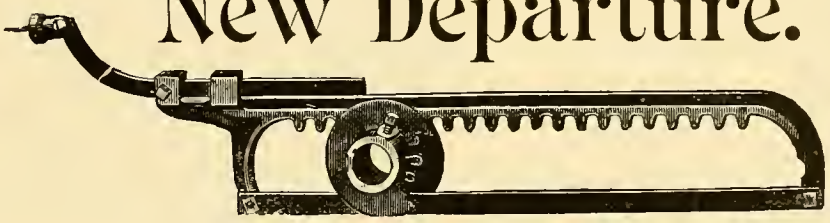
SPRING POETRY—The Poet was killed.

When Spring, Spring, gentle Spring
Comes springing in like a smiling lass;
Old Sol—the Sun, just for fun,
Raises "Sheol" under glass.

Holy smoke, a Florist spoke:
Put on the air quick as you can;
This "New Departure" will stop the torture
And it saves the work of an extra man.

THIS IS THE

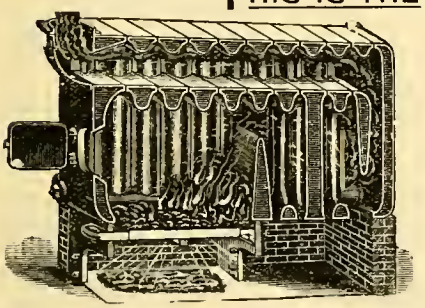
New Departure.



It is the CHEAPEST and BEST appliance ever put on the market. Send for a Catalogue and get a new idea on Greenhouse Construction.

J. D. CARMODY, Evansville, Ind.

THIS IS THE



AMERICAN CHAMPION WATER HEATER.

. FOR GREENHOUSE HEATING BY HOT WATER SYSTEM.

It is made by a **Florist** especially for Florists' use. It can be enlarged at any time more heat is needed, and it burns **soft coal without clogging.**

J. D. CARMODY, EVANSVILLE, IND.

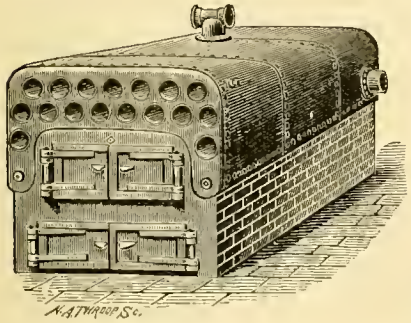
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ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers.



Capacity from 350 to 10,000 feet of four-inch pipe.

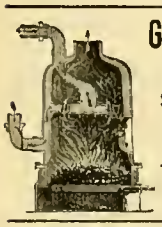
SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,

OFFICE, 189 STATE STREET.

WORKS, 56th & WALLACE STREETS,

. . . CHICAGO.



GREENHOUSE HEATING

AND VENTILATING.

Superior Hot Water Boilers

JOHN A. SCOLLAY,

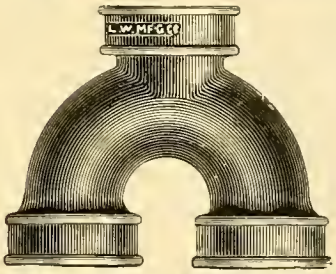
74 & 76 Myrtle Ave., Brooklyn, N.Y.

Send for Catalogue.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

Greenhouse Pipe and Fittings.





Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST.

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

J. MANZ & COMPANY

WOOD ENGRAVING, ZINC ETCHING, COPPER ETCHING, HALF-TONE PROCESS, WAX PROCESS, ELECTROTYPING

ENGRAVERS

HIGHEST AWARD AT WORLD'S COLUMBIAN EXPOSITION FOR SUPERIOR DESIGNING AND ENGRAVING

183 MONROE STREET · CHICAGO ·

— OUR —

SASH LIFTER AND HINGES

will do the work and cost you less than any other. Send your name and address and we will mail you description and price.

BAY STATE HARDWARE CO.

244 Freeport Street BOSTON, MASS.

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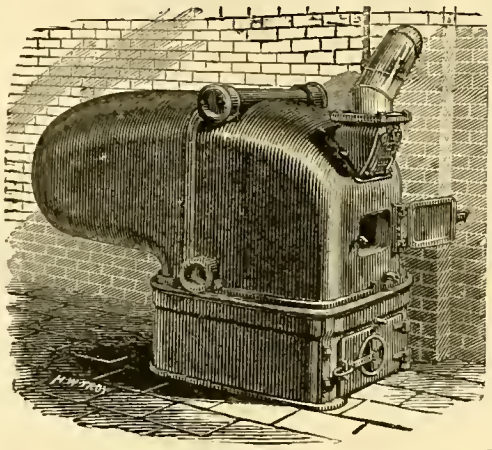
Atlantic Building, WASHINGTON, D C.

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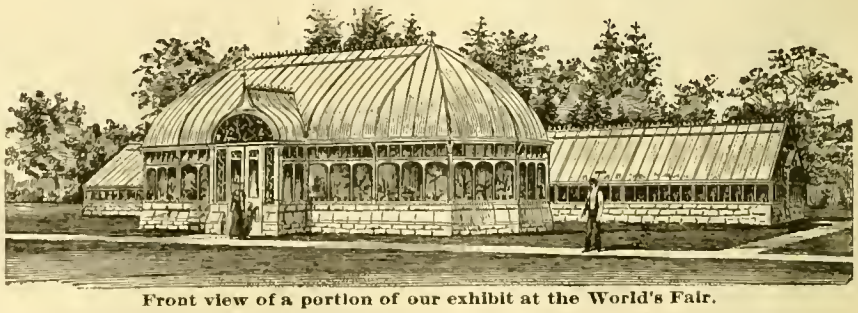
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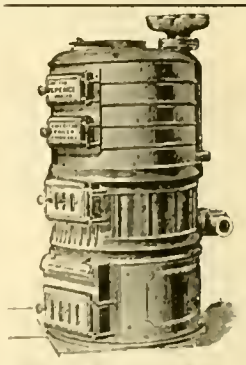
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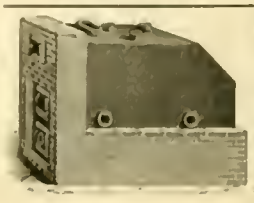
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PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

Trees for City Use.

THE KINDS TO PLANT, AND HOW TO TREAT THEM.

BY JOSEPH MEEHAN.

[*Read before the Pennsylvania Horticultural Society at its February meeting.*]

The subject of trees for city use is one of interest to all of us. We know what a boon shade is to us, how all of us look for it, and how little of it those of us who live in the city get. There are, really, no shade trees in our city worthy of the name. It cannot be disputed that trees in a city have a hard time of it. Poor soil, leaky gas pipes, asphalt and other tight pavements, operate against them. On the other hand there are cities in which trees have been made to flourish, showing that streets lined with beautiful trees is not an impossibility. It hardly needs saying that we do not succeed in our city in having spreading shade trees, because of a lack of intelligent understanding of the requirements of trees. It will never perhaps, be much better than it is to-day, it certainly cannot improve much while every property owner plants a tree or not in front of his property as it suits him. And when he has planted it, he retains full control over it, chops the limbs off it—pruning it, he calls it—and otherwise mutilates it as he sees fit. The city should have control of the streets so far as the planting and care of trees are concerned; not till then will there be trees worthy of the name. I have said it will never be much better than it is under the present system because of a lack of knowledge of the requirements of trees. It was because I hoped to make some useful suggestions that I consented to your Secretary's request to prepare this paper for you this evening.

In regard to the proper kinds of shade trees for our city, any one who has seen those of Washington, knows that, with good care, almost any tree would answer. But we must take things as we find them, and not name kinds for general use available only in the hands of the skilled. In streets already planted here and there with trees, and where someone wishes to plant a few more, the following list may be selected from. They are named in the order I would prefer them for my own use: Norway maple, sugar maple, silver maple, linden, plane, catalpa, horse chestnut, paper birch and paulownia. Of these, the Norway and the sugar maple and the plane are the most planted at the present day. The Norway makes a dense and spreading growth, the sugar, a more upright one, the plane is noted for its pyramid-like outline. The silver maple fell into disrepute because that it was so often seen with mutilated trunks, made so by those ignorant of how to prune it. It is a tree of large size in time, so is the linden, the plane and the horse chestnut. The catalpa I would plant is the Western one, speciosa, which is much more of a tree than the spreading one, bignonioides, which is native to these parts. When birch trees are mentioned, visions of columnar trees with thin foliage come before us, but the paper birch is not such a tree at all. It has large foliage, and is of a rather spreading habit, and makes a good shade. Besides this we get its lovely white bark. The paulownia is but little known as a street tree; but it might be used to good advantage. Its very large leaves, and its blue, trumpet shaped blossoms recommend it. Many of you may be familiar with the large specimen in Independence Square. I would place the horse chestnut further up the list were it not for the leaf blight which sometimes destroys the foliage in mid-summer. But let me say here, that there are now well-known fungicides with which to preserve the foliage of our trees, and insecticides also, to use where needed. Spraying engines to do the spraying can be had, and fruit growers in all parts of the country are alive to the fact, and are preserving their trees and their fruit.

As to spring or fall planting, it makes no difference. The trees named do as well at one time as the other. Unless in localities where the natural soil exists in its original purity it is better to dig out a moderate cart load of soil and fill in with fresh, good earth. Rank manure should not be used at all, but that a year or more old, well decayed, may be mixed with the soil moderately, but good planters think it better that it be not in direct contact with the roots, so unmixed earth is first thrown in to cover the roots. It is well known good practice to do some pruning before planting. Just how much is determined by examining the roots. All trees lose more or less roots in digging. If but few are lost, but little pruning of the top is called for, if many are, a good deal of the top must come away. Non-attention to this is the cause of the loss of thousands of trees. Numerous branches make more mouths than the roots can supply, and in the struggle, the trees die. Do not be afraid of a good pruning of the top. There is another reason for pruning at planting. The trees may be unshapely, the branches too low, or the top spindling. Pruning, or cutting away of branches to remedy these defects, aid the roots at the same time. This pruning accomplished, the tree is ready to be planted. A good-sized tree needs two men, one to hold the tree and tramp or pound the earth in, the other, to throw the earth into the hole. Let the soil be as fine as possible, as the finer it is the closer it can be got into contact with the roots, a most essential point towards gaining success. As each shovelful is thrown in, tramp it in, and continue to do it until it is finished. In regard to watering these trees, it is rarely necessary with deciduous ones. The soil is generally damp

enough. I have, however, found great benefit from watering them when planted in a dry time, such as early fall often is. In such cases proceed with the planting as recommended, but when about half the soil has been filled in, pour a bucketful or two of water in, let it thoroughly soak away, then finish the filling in.

We will now suppose the trees are planted and are flourishing. The question of pruning then comes in. Taking the Norway and sugar maples as examples, but very little pruning will be necessary at any time. Sometimes a branch or two will show a disposition to get too much ahead of the rest, and must be shortened in. Branches may be too close together, and need cutting out. The proper time to do this work is just as soon as the need of it is perceived. Every summer and every winter look over your trees, and you can do with a small pocket knife what will suffice to make beautiful specimens of them and that which, if not done then, may need saw and hatchet a few years later. I have seen lovely large trees that were never touched with anything larger than a strong pruning knife. Many of our straggling, uncouth looking street trees, could have been made bushy, good shaped ones if a little annual summer pruning had been given them. Nothing equals summer pruning to make trees bushy. Take off the points of the growing shoots —it can be done with the finger and thumb very often—and out come the side shoots, a dozen in the place of one. Do not forget that where you cut in winter you get but one or two shoots in place of one, and those more rank than the one cut away, while summer pruning gives the dozen of small twigs that make the trees bushy. It is the ignorant topping of our street trees in winter which has made them a disgrace to behold. There are hundreds and hundreds of trees in our city which would have been far more satisfactory to their owners to-day if barbarians had never been allowed to touch them. The Carolina poplar, a really beautiful and fast growing tree when young and when summer pruned, being such a rank grower, is a favorite with those of the saw and hatchet, and the mutilated specimens of this tree do more to disfigure our streets than those of any other kind.

Among Chicago Growers.

It is always a pleasure to visit the admirably conducted establishment of E. Wienhoeber & Co., at Park Ridge. As usual the place this year is looking exceedingly well.

The range of rose houses, built in the most modern and approved style, contain a line of the leading varieties such as Beauties, Bridesmaid, Mermets, Brides, Cusin, Perle, Gontier, La France, etc. At the present writing most of the houses are off crop and don't show at their best, but the stock is growing vigorously and promises a heavy cut this spring.

Of Beauties we find two houses which show some very good bloom and a splendid new growth breaking from the roots. Mr. Earl, the foreman in charge, remarks regarding this variety: "With us the Beauty has always behaved well and the cut this year has been as good, as could reasonably be expected. At this season of the year you will find more or less crippled flowers but on the whole we find little trouble on this score. Neither are we troubled much with blind wood. These shoots," smilingly remarks Mr. Earl, noticing probably our rather skeptical glance which was directed to a number of rather lanky individuals several yards long, "will all set buds. You see when they run up so high as to threaten to raise the roof on the house, we bend them down horizontally for a distance and then tie the tip up straight again. This nearly always brings a bloom."

These roses as well as all other varieties except hybrids are grown on benches, the center benches with a slope to the south. The side bench on the south in both these houses is planted with Mme. Cusin. Speaking about this rose Mr. Earl remarks: "The Cusin with us is one of the most difficult roses to grow. We have experimented with it for a number of years, and though it has certainly not been a failure, yet we have never been able to do it real well. It evidently don't relish our soil, at least this is our opinion, so next year we propose to give it a trial in a different soil."

Bridesmaid is looking fine. Says Mr. E: "This rose is bound to become a prime favorite. As regards growth and habit it is identical with Mermet and with us readily yields to the same treatment. It flowers equally as free, the color of course is far superior." The weak point of this rose complained of by some growers that the flower stems are not strong enough to bear up the blooms well, is not seen in the stock grown here. It compares favorably in every respect with Mermet.

"What do you think of Kaiserin, Mr. Earl?" we asked. "Well, I like the appearance of the rose very much, and there is little doubt that it will prove a good seller, but the question is will it pay to grow it? I see by the eastern market reports that Kaiserin has made her appearance again in the market after a retirement of several months, during which time little or nothing was seen of her. Now that doesn't look very encouraging. A rose that produces little or nothing during two or three of the best months of the season hasn't got a first-class certificate. I should like to know a little more about this rose before tackling it, and if some of the brethren who have had some experience with it this season would enlighten us on some of these vital points through the medium of your journal, they would confer a great favor on many of us who are groping in the dark."

Hybrids, as remarked above, are the only roses grown in solid beds. There is only one house of them, mostly Anna de Diesbach and Brunner, just coming into crop and looking fine. "But," says Mr. E., "it don't pay to grow hybrids in solid beds. You have to devote the whole house to producing one crop in spring. Hereafter we intend to grow them in boxes outdoors during summer and after the chrysanthemums are cut out in the fall use those houses for flowering them."

The carnation houses are looking superb at present, being in full crop. Every variety grown is doing equally well and what is more not a trace of rust can be observed on any of the plants. The finest house, as far as appearance goes at least, is one of Portia. This variety shows up in grand style. The blooms are well formed, of good size and brilliant color. The same might be said of Tidal Wave, which is a mass of buds and flowers. The bench of Silver Spray is also very fine and shows very few ragged blooms. The flowers are large and the plants as seen here show their old-time vigor. There are after all few varieties that can beat this old favorite, when grown well. Lizzie McGowan is flowering freely, and on the whole has proved very satisfactory. The flowers, as has been stated before, were rather unsymmetrical in form and borne on too weak stems, but when grown well few varieties can equal it in a loose arrangement, as it yields more readily to graceful lines, than any other sort.

Grace Wilder is an old favorite here and has been grown successfully for a number of years. The blooms as noted here are of fair quality, but have the same fault, that of bursting the calyx, and are streaked and more or less imperfect in color, as often noted before in different localities. "As a producer," remarks Mr. E., "this variety leads any of the others grown here two to one."

Among other things of note is a very fine batch of mignonette of the Machet variety grown in a solid bed. "I prefer to grow this flower in solid borders," says Mr. E., "the roots like a cool bottom, and with us, grown in this way, the result is more satisfactory than when grown on benches."

Bulbous stock is forced here in large quantities and of the very best quality. Many growers have been complaining of the poor forcing qualities of tulips this season. The experience here is quite the reverse. The percentage of loss is reported not to exceed 5%, chargeable directly to poor quality of bulbs.

This establishment is equipped with the electric thermometer, a device, the usefulness of which is not as generally known as it should be. To those who are unfamiliar with this instrument it may be interesting to know the mission it is called on to perform. The device consists of a thermometer connected with an electric battery which sounds an alarm bell when the temperature reaches a given point. Let us suppose for instance that you wish to run your house at a mean night temperature of 70° with an extreme variation of 10°. You will then set your instrument by means of an indicator in the manner of an alarm clock at 65° and 75°. If your fireman is negligent in his duty or goes to sleep and allows his fires to go down, as soon as the thermometer touches 65°, the alarm will sound and in the same manner when the temperature runs up to 75°. The alarm bell may be located at any desired point within a reasonable distance by means of electric wires. At this place a wire leads to the sleeping room of the foreman, who will thus be warned at once if anything goes wrong in the houses.

What is a Fungicide?

BY B. T. GALLOWAY.

As far as can be ascertained, the word "fungicide" originated in this country less than eight years ago, the first record of its use being found in a letter from a correspondent in California to the Section of Vegetable Pathology in the United States Department of Agriculture. This letter, which relates to the use of chloride of iron as a remedy for downy mildew of the grape, was published in the latter part of the year 1886 in Bulletin No. 2 of the Section of Vegetable Pathology. The word has now come into very general use, as may be seen from a study of the foreign and domestic literature of the past eight years on plant diseases. A fungicide means a fungus killer, but for practical purposes this definition is entirely too broad. White arsenic, carbolic acid, sulphuric acid, and even man, are strictly speaking fungus killers, but viewed from the standpoint of the plant pathologist they can hardly be considered practical fungicides. What, therefore, would be a definition of a practical fungicide? In other words, if a farmer, fruit grower,



VIEW IN THE STOVE HOUSE, PALM VILLA, NEW ORLEANS.

or gardener should ask to have the word in question defined how would it be done? Of course in answering such a question many things would have to be considered, but laying aside all arguments it seems to me that the following definition covers the ground: A practical fungicide must have first of all properties detrimental or destructive to the growth of fungi; furthermore, it must be cheap, easily prepared and applied, harmless to the most tender growing parts, have sticking and wetting power, and finally must be as free as possible from qualities which would make or tend to make the parts treated injurious to health when used as food. The qualifications here mentioned are for the most part so obvious that very little further on the subject need be said. It might be well, however, to point out the difference between sticking and wetting power. A liquid may stick or adhere well to the foliage of a plant and still not effectively wet the former, that is it does not thoroughly and evenly cover the entire surface.

One great objection to many preparations used as fungicides is that they roll up in drops as soon as they strike the leaf, and by drying in this condition leave a large part of the surface unprotected. A liquid fungicide that covers the entire surface is said to have good wetting power, and if this is combined with adhesiveness it renders the preparation all the more valuable.

The question may arise as to whether we have at the present time a fungicide filling all the requirements mentioned above. We may say in regard to this matter that the Bordeaux mixture is practically the only one that can be mentioned. Many others have been tried, but have been found wanting in one or more points.

Palm Villa, New Orleans.

We present herewith two views in the greenhouses at Palm Villa, New Orleans, the residence of Mrs. T. G. Richardson, sent us by Mr. Harry Papworth, the gardener in charge.

In the stove house will be noted some fine anthuriums, marantas, ananassas, dracænas, etc. In this house is a Dracæna fragrans in a 10-inch pot which is 12 feet high and with every leaf perfect from the pot to the tip. In the center of the picture are seen fine specimens of Cibotium regale and Stevensonia grandifolia.

In the orchid house are seen two good angræcums, A. eburneum and A. sesquipedale, which are in the center of the picture, and other orchids in variety. The bench at the right is devoted mainly to cypripediums.

Construction of a Contract for Planting.

Florists and growers of shrubbery are peculiarly, in many respects, subject to the caprice of the elements. An exceptional and important decision on the effect of what are termed the acts of God on contracts, is the recent one of the Supreme Court of California in the case of Remy v. Olds. Here was a contract by which one party agreed, during the fall to thoroughly plow, level, and put in good condition to irrigate and plant in vines and trees, certain premises, which were before the first of April following to be planted with grape vines. He was prevented by heavy rains from plowing the land in the fall, but did it in the following February. To recover for labor performed, materials furnished, and money laid out and expended, he brought this action. The court, however, holds, first, that a rain in the last days of October would not be such an extraordinary event as would constitute an act of God excusing performance of contract. It was a seasonable event, one which was likely to happen, and which common prudence would have provided for. Moreover, while the doctrine that the act of God excuses a failure to perform a contract, being a good defense to an action for damages, it cannot be invoked to entitle a person to recover when he has not performed his part of the contract. In other words, even when liability for nonperformance would be excused, an impossibility to perform cannot be held equivalent to performance so as to sustain an action to recover damages on a contract. Another point decided, was that as the words "grape vine" might mean either a plant with a trailing or climbing stem, or a trailing stem in con-

tra-distinction to the plant, and both are used in planting vineyards, the party undertaking to plant grape vines could plant either those having roots or those known as grape "cuttings." A cutting would, therefore, seem to be the equivalent of a vine so far as language goes. How far this doctrine would be extended to other kinds of cuttings, it is impossible to tell, but this decision suggests that it will always be just as well to carefully distinguish when cuttings are not wanted.



Exhibiting Carnations.

At our convention in Indianapolis we had a banquet. At the banquet I was called upon to respond to the toast: "How to make Fall Exhibitions successful." Not being an impromptu speaker I replied very briefly that the only way was for us to get down to work individually and make them successful. This is however so important a question for carnation growers that I want to add a few remarks here.

In the first place, by Fall Exhibitions we all understand the chrysanthemum shows which come off between Nov. 1st and 15th. Now in order that the chrysanthemum shall not overshadow the carnation entirely there must be an abundance of room left for carnation exhibits and every grower in the vicinity should take an especial pride in seeing that that space is filled with good flowers and kept staged with good ones. To do this they should be staged between seven A. M. and the time the doors open to the public, and they should all be taken out that night after the doors are closed and either sent to a hospital or destroyed. This programme should be gone through with on every day the show lasts. There is nothing so detrimental to the carnation in the eyes of the public as leaving flowers on exhibition after they begin to deteriorate, and they are sure to do this the next day after they are staged.

Our Pennsylvania Horticultural Society has made a step toward overcoming this evil by offering premiums in the same classes on two different days; this will have the effect of getting at least two fresh lots in during the show. But this will not remedy the evil entirely. It remains with the growers whether or not they have sufficient love for and pride in their carnations to make the slight sacrifice of putting fresh flowers in daily and keeping the exhibits in respectable shape.

As a suggestion, would it not be a good idea to judge the carnations the first day and the last day of the show and rule out every exhibit which was not renewed daily? There would of course have to be exceptions made to this rule for flowers from a distance but they should be judged the first day and taken off the benches that night.

Another point, while on the flower exhibit; there should be not less than 25 blooms to a jar and they should have enough carnation foliage with them to present an artistic bunch and not look like samples from a commission house. The vases or jars should be of various sizes to correspond with the different varieties as what will hold one sort nicely will not another, and the flowers should not be sacrificed to accommodate the vases. There should also be a number of very large vases containing 100 or more blooms each of some of the showy varieties. In arranging the exhibits it should be done with an eye to the general effect and everything should be neatly labeled, with the grower's name attached if you wish. Everything should be done to encourage superiority in the exhibits and the staging of them. A little extra care and labor is bread thrown upon the waters and it will return tenfold at the box office, the store and the greenhouses.

Next week I want to say a little on the growing of carnations in pots for exhibition purposes, a feature that we hope to see becoming more frequent at every show, spring and fall. A. M. HERR.

New York.

Easter trade in New York was a surprise. The business done in plants was undoubtedly the largest on record, and the cut flower business proved itself to be in the healthiest condition possible. Just what struck the cut flower market seems to be something of a puzzle. Early in the week wholesale prices stiffened up considerably, carnations especially taking a surprisingly strong upward turn. To be consistent with past history this self assertion on the part of the cut flowers should have resulted in general ruin on the last day of the week. Everybody has become so used to a big surplus of stock and slaughter of prices on the day immediately preceding the holiday that any variation from this rule was the last thing looked for.

What did become of the stock of roses, carnations, violets and lily of the valley which came in on Saturday morning is an unsolved mystery. The retail store people were too much engrossed in their plant trade to give much thought to the cut flower question until evening, and there were no special indications of great activity at the different wholesale establishments. The Greeks were as numerous and clamorous as usual, particularly at the 34th street market, upon which they descended in the early morning in a horde that would have made a good detachment for Coxey's famous army.

By noon time it began to be apparent that those who wanted good roses, carnations and other desirable stock would have to bestir themselves, and when towards evening the second shipments commenced to arrive from the growers in various sections the contents were found to be totally inadequate to satisfy the demand. As an indication of the violet market one shipment of over 40,000, which came from George Saltford to John Young may be noted, and the whole lot went at once to a single retailer. Lily of the valley even, which was almost invariably of inferior quality, seemed to catch the current and it all vanished, much to the surprise and delight of those who held it and expected to find it left on their hands.

As to roses and carnations all that can be said is that they went at sight, although the roses averaged small and poor, and first-class blooms were in a minority. The prices on roses, however, did not advance much, and no attempt was made to take an unfair advantage of the buyers by jumping prices on them at the last moment. There was a fair supply of hybrids obtainable, mainly Baroness Rothschild, Ulrich Brunner and Luizet. American Beauty made a poor showing. The great majority of blooms of this variety were exceedingly poor.

Some things there were, however, that could not be unloaded. One of the worst of these was mignonette. There is entirely too much of this flower grown in this vicinity. Smilax, too, was unsalable. Tulips, although not seen in large quantities, sold but poorly, as did also candidum lilies and callas. Roman hyacinths were also among the unfortunates. Harrisii lilies accumulated with some dealers, but a possible reason for this was the terribly bruised and battered condition of much of the stock. There were a few sweet peas in market, which brought twenty cents per dozen wholesale.

The plant trade for Easter has assumed enormous proportions. Nearly every retailer had an extra store or two for the occasion and this department occupied their attention almost to the exclusion of anything else. The retailers in New York are as a rule retailers only and do not, as is the case to a considerable degree elsewhere, grow any of their own stock. They nearly all depend for their Easter plants on the growers here who make a specialty of this class of stock, hence it is that the stock in the various stores was of a similar character throughout. Azaleas, hydrangeas and lilies predominated everywhere. There was also a fair representation of rhododendrons, genistas, astilbes, lilacs, marguerites, heaths, Dutch hyacinths and other bulbous stock, with a sprinkling of metrosideros, acacia, roses and kalmias.

Azaleas easily led in popularity. The quantity of these disposed of was unprecedented. All colors seemed to be in demand, medium priced plants from five to ten dollars having the preference with the better class of customers. The quality of the azaleas could not have been better. Occasionally a few were seen that had been in bloom too long, but as a rule they were in splendid shape. Lilies were the only plants which came any where near the azaleas in popularity. Low grown longiflorums were the favorites. Tall grown Harrisii did not sell nearly as well as last year. Genistas have lost ground badly. They serve to make a store front look brilliant, but as salable stock for Easter they have had their day. Hydrangeas are in the same boat. Just why it is hard to understand, for they are good keepers and make a rich show. No better plants could be imagined than those offered; they were well bloomed, stocky and the shades of color varied from deep pink to soft blue, but very few wanted them. The same was true of the little Thomas Hoggs, of which very neat specimens were offered. Rhododendrons came next to the azaleas and lilies in popularity. Dutch hyacinths in pans and pots of ten or a dozen plants and pretty, well bloomed violets and marguerites also sold well. Lilacs did not sell as well as they deserved. Metrosideros, kalmia and acacia were almost dead stock.

Immense bows and sashes of gay ribbons inscribed "Easter Greeting" were seen in profusion everywhere on plants, and celluloid pots and baskets were used as receptacles. Many very pretty combinations were made. Brilliant hyacinths in baskets of white and gold were tied with a broad satin ribbon of their own color; heaths were put in baskets of white and silver, with pale blue sash, and few lilies were sent out without a ribbon of some color tied round the stems. The surface of the soil in the pots was neatly covered with moss or selaginella and everything done to make the plants appropriate for the drawing room.

An innovation was the use of crepe paper about the flower pots. This was



VIE IN THE ORCHID HOUSE, PALM VILLA, NEW ORLEANS.

used in various shades quaintly gathered together and held in place by narrow ribbons. As an inexpensive and pretty substitute for baskets and fancy pots it is a success. The only danger is that it is apt to be overdone, until like the old fashioned bouquet papers it meets with disfavor.

The Union Square flower market is in full bloom every morning now. On the day before Easter every wagon that could possibly squeeze in was there, but the trade was not up to expectations. Bedding stock people are not ready for; and the chilly wind that blows across the square in the early dawn of a March morning is neither conducive to the health of a lily or azalea, nor comfortable for plant buyers.

One of the big "bargain" stores in Brooklyn advertised "Boxes of Horricide or Bermuda Lilies" for Easter. As the goods referred to were rotten Bermuda stock, possibly the astonishing title was not misapplied.

Another Brooklyn establishment offers from the stock of a well known nursery plants at such disproportionate prices as: "Kentia palms, 19 cents; Sago palms, 65 cents; and Zatania palms (What is it?) 3.75." Brooklyn needs a fool-killer.

R. K. Young has opened a wholesale cut flower store at 482 Sixth avenue.

YOU CAN'T AFFORD to do business without a copy of our trade directory and reference book.

Philadelphia.

The weather of the past week has been all that could have been desired save for the temperature, which until Friday night was far too warm. Never before were there so many lilies about, they seemed to be everywhere, the regular stores were full, vacant buildings being rented and palms stored to make room for Easter stock. Empty stores were rented in many places and Easter plants sold by outside parties, while along the streets in the busy centers of the city small growers, and large ones too for that matter, as well as hucksters, were to be seen side by side, their displays taking up in some cases almost the entire block.

Prices went all to smithereens and lilies could be bought on the street retail in some cases at the lowest wholesale price. With few exceptions the stock was not nearly up to the mark; many, in fact three-fourths of the plants, were very tall and the flowers very soft and flabby. The stores as a rule sold their plants at 25 cents per flower and bud, not counting the very small green buds. With some the price was 20. In one block containing two regular stores both sold all their stock, one for 20 and the other for 25. In addition to the immense quantity of homegrown flowers a large consignment arrived from Bermuda but these were very unsatisfactory, being nearly all soft and worthless. All other stock, with the exception of hydrangeas, was good. This plant was poor this season, making a short stunted growth which made the pot seem very large.

There were a lot of azaleas which were good and sold very well as did the genista. It is a pity that this beautiful flower closes up so soon; 24 to 36 hours in a city store or greenhouse puts it to sleep most effectually. For the Easter trade Mr. Harris, who supplies the Phila. market with this plant, sent in a fresh supply each day and in its perfect state it was one of the best sellers.

The volume of business was equal to that of former years although in the early part of the week it seemed to lag. Friday and Saturday were good, especially Saturday, which eclipsed anything ever seen before. People pushed and jostled each other like high tide in a chrysanthemum show and as fast as the busy clerks could handle the stock it was sent out. All the stores say they could have sold more if they could have waited on the people.

Orders for cut flowers were refused quite early in the day, the small stocks not being equal to the demand. Roses were scarce, that is in all except the hybrid class. The warm weather had brought them on so, that most of the places were off crop and there were not near enough to go round. The larger teas sold for 6 to 8 and in some cases 10 and 12 were asked; the smaller classes brought 4 to 6. Brunners were 4 to 5 per dozen, and Laings and Luizets 12 50 to 25. Carnations, while fairly plentiful, were in

great demand and few of them found time to go to sleep. They range in price from 2 to 3 for good ordinary and 4 to 5 for extra fancies. Bulbous flowers were plentiful, tulips at 4 being very fine. Other stock sold at the old prices, valley 3, Romans 1.50 to 2, daffs 3. K.

The warm weather of the past few weeks having brought the crops of some kinds of roses in one week sooner than the grower had figured on getting them, so as to try to satisfy the storekeepers by having a good supply for Easter, many varieties were somewhat scarce. Not that it made any difference to the grower as far as dollars and cents are concerned. The retailer, however, always puts the prices higher at this season, in fact almost as high as he gets at Christmas time, but if the grower had the audacity to ask an advance in the wholesale prices he would be unceremoniously "turned down" for the balance of the season.

It happened to be the grower's inning this Easter, especially does this apply to those growers who make cut flowers their specialty. Unfortunately they (the growers) had not the satisfaction of getting better prices, only in noting the anxiety of the storekeepers in getting sufficient flowers to fill their orders. Am not positive about this, but I am inclined to think that the retailer cherishes unkind feelings against the growers, who have been faithfully supplying them with what they needed in flowers the whole season through, for as we delivered our Beauties, Brides, etc., on Saturday (day before Easter Sunday) morning, they appeared to feel as though we had it in our power to produce just as many flowers as they wanted, in one night, and the common remark was: "Why, you have not left me more than one third of what I expected you would leave me."

It was really amusing to see one of our enthusiastic city florists, who had carefully studied the time tables of both the Phila. and Reading R. R. and those of the Penna. R. R. (he admitted he had not slept a wink all night) to find out, when possible, what time the growers would be likely to arrive, so as to be there, on their arrival, and feeling that he was not sufficiently fleet of foot he hired a hansom, selecting one to which was attached a milk-white steed—believing there's luck in white horses—and the tires of the wheels —figuratively speaking—were kept red hot as he frantically travelled from one depot to the other, about three squares apart, hoping and praying to catch the growers before they could go their rounds, among the other storekeepers.

Some of the retailers even went so far as to express regret that the growers had not given them due notice that they would put the wholesale prices up to the same as those charged at Christmas. This, they claim, would have helped them to bill their orders with more satisfaction (but why?), and from a grower's standpoint I can safely say there never was a season when the grower needed that help more than he does the present one. Only three or four days ago, when we would call to leave our daily portion to that august personage, the dealer, when he could find no other excuse to turn the order down, would complain about the quality.

The scarcity of cut flowers this Easter was not due to the lack of number of square feet of glass devoted to their culture in this locality, but the peculiar and gloomy winter has wrought ruin to many a rose bud, and the exceptional warm and unseasonable weather for two or three weeks past precipitated the crops from one to two weeks ahead of the calculations of most of the growers. From the present outlook if trade is anything like what it ought, should, could, or might be, there will be only just about enough flowers to go around nicely, without causing any great glut of flowers for the balance of the season.

Oh! what a glorious thing a market would have been on last Saturday, with a good sharp auctioneer to have taken charge of the sales. Methinks the growers would have been able to pay some of their accumulated bills, or perchance lifted some of the mortgages with which some of the establishments may be encumbered, with the proceeds, for as I understand a market, everything that is sold therein, has to be paid for in spot cash.

The flowers having a briney flavor, so much commented upon in former years, were very little in evidence this Easter.

F. PIERCE.

Boston.

Widespread satisfaction prevails among the Boston florists over the record of Easter trade, and the confident predictions made by some that we should see the best Easter we ever saw seem to have been realized, judging from the jubilant claims one hears. An amusing feature about the situation, however, is the way in which each one, while telling of his own success points out with a chuckle how his competitors "got stuck" on one thing or another.

Contrary to general expectations the supply of lily plants was equal to the demand. The number available was much larger than good judges had believed possible. This was no doubt in part owing to the weather, which has been so warm and pleasant that many lots which were supposed to be away behind hand, finally came in on time. The proportion of longiflorums to Harrisiis was larger than usual and the longiflorum seems to have been much more generally sought after. Azaleas were superior in quality, and much larger in quantity than ever before, and they sold well.

The wholesale florists all took a turn at the plant trade this year, they having in each case secured an extra store or two for that purpose. This action, like that of Wm. Edgar, one of the large growers, who has taken a store on his own account each year, was naturally looked upon with much disfavor by the retailers, who threaten to get even. But as none of them have ever supported the local commission trade consistently nobody seems to worry much as to the consequences and apologies are not likely to be forthcoming. The large department stores have all been into the lily business this year. Profiting by their past experience they knew better than to be deluded by the "Bermuda flower" humbugs and bought their stock from the legitimate sources.

The number of lily plants disposed of through these extra channels was enormous, and the trade could not possibly have been handled by the regular retailers with their usual resources. It is doubtless true that many people bought who would not have patronized the regular florists in any event. The narrow margin of profit figured by the "department" people was a big inducement for small buyers, and the principal source of trouble to the florists, but this was offset in some degree by the fact that these people in their advertisements stated that they would not undertake to deliver any plants, and that customers must make their own provision for getting them home. When they come to figure up their special expenses and shrinkage on damaged blooms, they will perhaps realize that cut rate methods should be adopted with caution when tampering with flowers.

The prices obtained at wholesale by Boston growers for their lilies were far ahead of those prevailing in New York or Philadelphia, probably from 40 to 50 per cent more. Their great advantage lay in the prevailing impression that there would not be plants enough to go round, and the consequent eagerness of buyers to secure the desirable stock in advance. The situation was also taken advantage of to count sharp on buds and the rule of counting every bud on a plant at the same rate as a flower was pretty closely adhered to, although not without much controversy.

The cut flower trade was all that could be desired. The weather on the day preceding Easter was charming and the customers were all out in force, the streets presenting a holiday appearance, which effect was heightened by the many special decorations in store windows. Roses, carnations and violets were the great favorites although everything seemed to go. There was practically nothing done in the way of made up work by any of the florists and the "pieces" for church decoration were few and far between. Loose flowers were the invariable rule.

Wholesale prices held up steady all through the week. Carnations furnished the greatest surprise and the stubbornness with which the high prices hung on was the prevailing topic. Four to five dollars a hundred was obtained without difficulty for good stock. Roses of all kinds sold for outside prices and of certain favorite varieties there were not enough to go round.

Among the prettiest novelties brought in were some pot grown clematises from Mann Bros. bearing about a dozen flowers each, of which an enormous quantity could doubtless have been sold if they could have been obtained.

L. H. Foster made a triumphal tour of the city one day recently with some blooms of carnation "Richmond" which measured 3½ inches across the flower and stood erect on stems 2½ feet long. He wants it distinctly understood that Boston is on deck when carnations are mentioned.

Messrs. F. R. Pierson and Frank Hamilton of Tarrytown, New York, spent one day in Boston last week.

Chicago.

The Easter trade this year was fully up to last season notwithstanding the disagreeable weather Saturday and the extreme cold Sunday. It is agreed on all sides that had the weather been at all favorable the business would have exceeded by far that of any previous Easter. As it was, trade on the whole was satisfactory. Very little stuff, and that of inferior quality, was left in the hands of commission men; this too could have found a ready market had the fakir been able to operate. It was a cold day in more senses than one with the street merchant. Saturday forenoon the weather was yet fairly pleasant enough to be out of doors, but as the wholesale men in most cases would pay no attention to him, he had to wait until the regular dealers were supplied, and by the time his

turn arrived, a strong cold wind began to blow, raising great clouds of dust, which made street taking anything but a profitable business, and on Sunday, with the thermometer at 15°, every member of the fraternity was banished from his accustomed haunts. The down town dealers were in a large degree the gainers by this state of affairs, but the business nevertheless suffered greatly with them also. Comparatively few people were out on the streets Sunday morning. The fair sex, noted in very limited numbers, who braved the wintry blasts of a northwest wind were muffled in thick furs instead of sporting a new spring gown adorned with a bunch of flowers, as is proper at Easter. Indeed if this had been Christmas, instead of Easter, the weather would have been in perfect harmony, as even a flurry of snow now and then, was not missing to make it realistic.

The plant trade suffered more in consequence of this state of affairs than did the cutflower business, but in spite of all obstacles the sales in this line were large. There is no doubt that the demand for plants at Easter is constantly increasing. Owing to the pleasant weather which prevailed in the early part of the week, plants began to move early, but a large quantity of stock was sold for delivery on Saturday and Sunday, and that is where the rub came in. No one was looking for such an extreme change and many an old and experienced campaigner was caught, and now mourns the loss of a lot of plants by freezing, owing to insufficient care in packing. The loss was heaviest in Harrisii, the high winds prevailing making it almost impossible to handle these plants without bruising the flowers more or less. The demand for these was heavy and good prices were realized, but owing to great loss in handling the profits will scale down considerably.

The stock of lilies, as well as most other lines of Easter pot plants, was much larger than in any previous year and was uniformly well grown. Azaleas were exceptionally good; the stock was the finest ever seen here at Easter and met with a brisk demand. Rhododendrons were also very fine but sold rather slow. Genista with some dealers moved briskly while others report a rather slow sale. Dutch hyacinths were offered in enormous quantities, which were pretty well cleaned up. Deutzias and spiræas sold well and very little stock was carried over. Daffs and tulips on the other hand met with very little demand.

The demand for decorative plants for churches was rather light. Blooming plants, particularly lilies, marguerites and azaleas, etc., with the addition of cut flowers formed the main decorative features. Very few set pieces were noted.

The supply of cut flowers with the exception of Harrisii and A 1 roses was ample to meet all demands. But there was no great glut of any one variety with the exception of Romans and mignonette and prices ruled firm throughout.

Harrisii, contrary to all expectations, were really scarce. As most of the dealers were expecting a heavy supply great efforts were made by them to induce dealers to place their orders early. A number of sales were effected early in the week at figures as low as $50 and $60 per thousand, but by Friday morning it was apparent that the supply had been either overestimated, or, as was probably the case to a large extent, a great amount of the stock was sold by the growers to dealers in pot plants. At all events the boys who had taken their chances on low figures and neglected to put in their orders, were disappointed. Prices meanwhile were stiff at $10 for good stock, and on Sunday morning advanced to $15.

Roses, noticeably in good quality, were scarce, as had been expected. Although no great amount of pickling had apparently been indulged in yet there was a large amount of soft and poor quality stock, which could only be disposed of owing to the fact that very little really good stock could be had. On Saturday every flower was sold out clean, but of shipments received Sunday morning, a few lots remained in the hands of wholesale men, as trade was almost dead on that day.

The supply of Beauties was very limited, and with the exception of a few small lots of inferior quality, the best sold at $25. In hybrids too the supply was short. Some fine Brunners, Laings and Diesbach were noted, which sold at 30 to 35 for first quality, and demand far in excess of supply. Jacques were fine, but also short in supply; prices ruled firm at 16 to 18.

La France is greatly improving and some very fine stock with extra long stems was noted which sold readily at 10; regular stock of good quality at 6 to 8. Mermets hold up fairly well in color and quality. Of Brides the supply was quite large but not nearly equal to demand; from 7 to 8 were the ruling figures. Meteor, mostly inferior stock, sold briskly at 8 to 10, Perles 5 to 6, Gontiers (extra fine) 5 to 6, common grades went at 4.

Carnations were very plentiful and averaged fairly good in quality. In some lines, more particularly in reds, the supply was in excess of demand, but prices kept firm. Common sorts were $2 and fancy $2.50 to $3. The supply of Portia was unusually large and of this variety quite a stock was left unsold.

Violets were very plentiful with rather light demand. Good fresh stock, that hadn't lost their fragrance found a good market at .80 to 1.00 but the large shipments of these flowers received from far off points proved an almost total loss. This stuff is generally disposed of by the fakir, but as these gentry were not in evidence this Easter, the stock had to be consigned to the barrel.

Bulbous stock went fairly well, and very little stock was left unsold. Tulips, particularly in the light shades, sold well at 4, daffs slow at 3, valley at 3 to 4, Romans 2 to 3; the latter were very plenty, and a considerable amount of stock was carried over. The stock of Dutch hyacinths was large and of very fine quality generally; they sold at 8 to 10.

Mignonette, for the first time this season, was far in excess of demand; the stock was very fine but met with rather slow sale and quite a lot was carried over.

Retail dealers without exception report a satisfactory trade, and by the way business opened on Saturday morning hopes were entertained of being able without much effort to beat the record of any former season, but Sunday put a damper on any such aspirations. The dealers in the downtown district were not so much affected as regards Sunday trade. With them most of the business is transacted on the day preceding a holiday but with those located in the residence districts it is quite the reverse; here the holiday proper is depended on for a good part of the business, and if the weather be such as was experienced last Sunday it makes a serious difference in the day's business.

Nevertheless the aggregate amount of business was fully up to last season, and when we consider that most flowers were sold at lower prices than ever before it would warrant the assumption that a larger amount of stock has been sold than at any previous Easter.

The demand was mainly for cut flowers, very few designs for churches or memorial pieces were called for, the same might be said of baskets, and other Easter designs.

Harrisii took the lead and some difficulty was experienced by some of the dealers in filling orders with good quality; $3 a dozen was charged at retail. American Beauties sold at $6 a dozen and hybrids at $8, first-class La France $3, Mermets, Brides and Meteor $2, and small teas at from $1 to $1.50. Brides met with large demand and some orders had to be refused as the supply ran short.

Violets generally sell well at Easter, but as these flowers are bought largely for the purpose of wearing to church or on the street, and this being out of the question with the thermometer at 15° it followed that the demand was very light, and a number of dealers who had laid in a large stock had more or less stock left on hand.

During Easter week some very fine window decorations were seen at various retail establishments, notably that of Mr. Halle on West Madison St., which consisted entirely of blooming plants. A large pyramid of Harrisii reaching to the ceiling of the store formed the central figure, flanked on one side by a group of superb genistas and on the other side were arranged azaleas and hyacinths in harmonious shades, the whole forming a striking picture which couldn't fail to attract the attention of every passerby. M. F. Gallagher's window was also very attractive and so was Friedman's on Michigan Ave., but few florists seem to pay much attention to distinctive Easter decorations. In most windows we note simply an assortment of commercial stock arranged with more or less, often considerably less, taste.

There was joy in the hearts of at least two of the members of the craft, Messrs. Wm. Smyth and John Zeck. Both discovered in their nests, not an Easter egg but something far better. Honors are even; both are daughters.

Among recent visitors were Mr. H. S. Van Waveren, representing Segers Bros., Lisse, Holland, and Mr. Ingram, representing Hugh Low & Co., London, Eng.

At a meeting of the stockholders of the Chicago Cut Flower Exchange held yesterday (Wednesday, 28th inst.) a resolution was presented by the board of directors providing that in future commission dealers be excluded and that the exchange conduct a commission business, in addition to renting space to growers as before. There was a lengthy and spirited debate on the subject. Finally a vote was taken in which 230 shares were represented, 209 of which were in favor of the resolution, but as it required 241 shares to make a quorum the matter was left unsettled and the meeting adjourned subject to the call of the President. This result was brought about by numerous share holders refraining from voting though present.

Henry Mundt is sending in superb carnations now; some Daybreak and Tidal Wave recently noted were of extra size and quality. They are disbudded; Mr. Mundt has reason to believe in the efficiency of this practice.

Visited Chicago: Mr. Chas. Dannacher, Davenport, Iowa; A. W. Bennett, Supt. Schenley Park, Pittsburg, Pa.; Harry Bunyard, Short Hills, N. J.; Wm. Ingraham, London, England.

Worcester, Mass.

With the thermometer way up in the seventies outdoors and not a cloud in the sky for the last eight days it has been very hard to hold anything back for Easter.

Most of the growers in this vicinity started forcing bulbous stuff, Harrisii lilies, etc., considerably earlier than usual, thinking that they would need every bit of the time to get stuff in for the 25th of March, but this unusual hot wave knocked out all these plans and brought most of the stuff in the cold cellars again. Notwithstanding this, I think the supply of flowers for Easter, will be adequate, with the probable exception of roses, unless the demand is much larger than usual.

On March 8th, the opening annual exhibition of the Horticultural Society, was held and eclipsed all previous openings. The weather being warm and pleasant, the people turned out in great numbers and the hall was uncomfortably crowded during the afternoon.

Perhaps the most popular feature of the show was the exhibit of Mrs. Josiah Lasell of Whitinsville, Mass., in charge of genial Geo. McWilliams, who staged his display on the center tables with his customary good taste and judgment. Large vases of superb, long-stemmed Brides and Mermets were placed in the middle of the tables and around these, nestling in the delicate foliage of Asparagus plumosus, was a display of orchids that was never equalled in the history of this society. Mr. McWilliams showed twenty-seven varieties of the best types known to us at the present day and all grown under the best conditions. His exhibit included Cattleyas Warneri, Trianæ, chocoensis and Percivaliana; Cypripediums Leeanum, Boxalli, Dominianum and a seedling after the Lecanum type; Dendrobiums Ainsworthii, splendidissimum, nobile, n. Sanderianum, n. elegans and n. Allanianum, these last three being among the rarest; a Cymbidium Lowianum, which McWilliams claims to be very best known and for which he has received many offers from London.

Next to the orchids, the display of carnations in vases was the most popular and was a revelation to those who admire the "Divine flower" H. F. A. Lange took the lead in this class and showed fifteen of the best varieties. Mr. Lange's flowers were large and well grown on long stems and showed the good effects of liberal feeding and disbudding. F. A. Blake of Rochdale was awarded second, for an especially good stand of first-class varieties. Among the other exhibitors were W. I. Wood, C. D. Thayer and H. B. Watts. The twenty vases of cut blooms, always a taking feature, were very fine and made a brilliant show, Lange first, F. A. Blake second, C. D. Thayer third.

The call for cyclamens in pots brought out a large number of exhibits of superior merit. C. D. Thayer captured first, with W. I. Wood a close second, and A. A. Hixon third. The brilliant coloring of the azaleas helped make the show attractive. The plants shown were rather small though well shaped and flowered. W. I. Wood and C. D. Thayer received the first and M. F. Brierly, H. A. Jones and A. A. Hixon, also received awards for meritorious exhibits. H. F. A. Lange came out a winner in the display of hyacinths in pots, which were especially good. Among the best varieties shown were Gertrude, Maria, Regulus, Lord Macaulay, Leonidas and Baroness von Tuyl. A. A. Hixon was awarded second and C. D. Thayer third. Cinerarias, primulas and callas were also exhibited in large variety but were not especially noteworthy. H F. A. Lange showed some fine vases of Brides and mignonette and C. D. Thayer had a nice display of narcissus, spiræa, ericas and hyacinths.

The next exhibition will be held on April 12 and calls for tulips, hyacinths, narcissus, zonal geraniums and cutflowers.

SEEDLING.

St. Louis.

The Easter rush is past, and the prevailing feeling is one of contentment at the amount of trade done; although complaints are heard from various sources, in regard to minor points that did not turn out as expected. The principal kick, if it may be called such, is at the unseasonable weather prevailing during the three weeks preceding Easter, and the consequent loss of bulbous stock that could not be held for that occasion. This was succeeded by a cold wave, which reached here Saturday morning, accompanied by a heavy wind: this was death to the market trade in plants, which had promised during the week to be exceptionally good. Buyers were scarce, and what plants sold went very low, more it seemed to get rid of them, than to get their value. Among the market plants some fine specimens of azaleas, genistas and lilies were noted. The cold increased during the day, and before Easter morning the glass registered 17°, and everything was frozen up solid; considerable injury is expected to result to the fruit crops and shrubs, many of which are in flower and well started into growth.

The shipping trade still continues to boom, several firms reporting being ahead of this time last year. Trade in cut flowers was brisk, stock with the exception of Harrisiis being scarce, with prices about as follows: Beauties 50 cents, Brides and Mermets 8 to 10, Bridesmaids 10 to 12, Watteville and Cusins 6 to 8, Perles and Woottons 5 to 6, Harrisiis 7 to 10. Perles and Woottons were noticeably scarce; Perles in fact have been so most all winter. The commission men are as a rule satisfied, although some shippers cut off their supply owing to the home demand. Thursday was as busy a day as Sunday, the amount of stock called for being in excess of former years. Prices ruled lower however, but the change from the inactivity that has prevailed for some time back was refreshing to behold.

The meeting of teams 3 and 1 of the Bowling Club on Wednesday evening was slimly attended, owing to the amount of work on hand, and a meeting of the Exhibition Committee called for Thursday evening to transact important and necessary business, succeeded in bringing out two instead of five members. It is unfortunate that members accepting the duties imposed by being placed on committees, neglect their performance without a second thought regarding the matter.

Mr. W. Ellison has instituted suit against the members of the late firm of Hanft & Benton, to secure payment of accounts incurred by that firm while in business.

R. F. T.

Liability of Express Company.

A decision of considerable interest to florists has been rendered by the Court of Civil Appeals of Texas in the case of Wells, Fargo & Co. v. Battle. It would seem from the statement of facts in the case that the party last named delivered to the Pacific Express Company, at one point, two bundles of fruit trees, vines, and flowers, and a package containing an order book, to be transported and delivered at a point on the Wells, Fargo & Company's line, the same being consigned to himself. The nursery stock was delivered, but the package containing the order book was not delivered, it was alleged, within a reasonable time. The trees and shrubbery were sold for the aggregate sum of $526, and the purchasers thereof had been notified to call for same on a given day, but because of the nondelivery of the order book, delivery of only a portion could be made, and although the shipper exercised proper care and diligence to preserve and sell the balance of the stock, it perished on his hands. Wherefore, he brought his action for damages, and obtained a verdict and judgment in the county court for $379.10.

In reference to the measure of damages the court instructed the jury as follows: "The jury are charged that in ascertaining the amount of damages sustained by plaintiffs in this case, if you find from the evidence that he has sustained any damages, under the instructions hereinbefore given, you will consider the aggregate amount of the orders and contract prices for the fruit trees, vines, and shrubbery as shown by the evidence, and find for such amount of damages, if any, that plaintiff has sustained by the failure of defendant to deliver said order book, less such amount as shown by the evidence plaintiff realized from said fruit trees, vines and shrubbery, and less such sum as from the evidence you believe plaintiff would have failed to collect on said orders and contracts if said order book had been delivered to plaintiff by defendant within a reasonable time." But this charge, the Court of Appeals says, does not correctly state the law, because, unless the express company sued had notice, when it received the package for shipment, that it contained the order book, and that it was necessary for the shipper to have the book in order to deliver the trees and shrubbery to his customers, it could not have contemplated that a failure to deliver the package within a reasonable time would result in a failure by the shipper to deliver any of the shrubbery, and its loss to him. There was nothing charging, or tending to show, that the delivering express company, or its alleged agent, the receiving company, had notice when the contract of shipment was made that the shipment included the order book, or was notified that the book was in any wise necessary to the sale, delivery, or any other use of the other freight. Therefore, as the delay in the delivery of the book was only three or four days, and it was not shown to have been injured, the owner was not entitled to recover more than nominal damages. And on these grounds above judgment was reversed.

Want of notice prior to, or at the time, the shipment was made, might, however, have been remedied, if the company had been notified, at destination, of the facts necessary to make it liable for damages in delay of delivery. If notice of the relation the book bore the other freight and the necessity for its prompt delivery was given at destination and then the company negligently failed to make such delivery it would be liable for special damages although it may have had no notice of the importance of the book and the necessity for its early delivery before it reached its destination.

It may also be noted that the court holds that before the express company to make delivery could be bound by the terms of the contract of the express com.

pany receiving the trees, shrubbery and book, it would be necessary to prove that the latter was its agent or partner, and any circumstance that tended to rebut such agency or partnership was admissible in evidence.

LA CROSSE, WIS.—Easter trade was never so good before as this year. On account of very unfavorable weather, owing to a total absence of sun during six days preceding Easter, supply was fair, but not much more than half equal to demand. Good roses sold for $1.50 a dozen, that is, Brides, Mermets, Wootons, Hostes and Bridesmaids, while Perles, Gontiers and Niphets were picked up clean at $1. Carnations brought 50 cents a dozen, with little regard for color, but good clear pink seems the most taking color here. Robert Craig and Tidal Wave appear to be good enough for the people of the Gateway city. Pot plants were a decided feature in this year's trade. Harrisiis, Soupert roses, cytisus, laburnum and Hydrangea Otaksa sold well. A handsome batch of lilies were seen from the Salzer Seed Co.'s greenhouses, brought in just in time, with an average of ten flowers and buds; needless to say they sold on sight at $1.50 each. The roses and carnations from that establishment also did credit to all concerned. Keenist & Son added another carnation house to their large range and are producing fine McGowans and Silver Sprays. Oak Grove Greenhouses also showed splendid azaleas and other stock.

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Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

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SITUATION WANTED—By a young man 26, as greenhouse assistant, 4 years experience; good references as to character and reliability. Address
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SITUATION WANTED—As foreman; 14 years in the business. Good cut flower grower. Age 30; married. Best references. Address
K G, care American Florist, Chicago.

SITUATION WANTED—By a practical florist, 13 years' experience in growing roses, carnations, palms and general stock; single. Good references. Address R G, 501 N. Calhoun St., Baltimore, Md.

SITUATION WANTED—As sexton or gardener by a first-class Scotch gardener; thoroughly understands all branches of the gardening trade; highest references. GARDENER, box 254, Westville, Conn.

SITUATION WANTED—By young man, eight years' experience in retail cut flowers and plants, wholesale cut flowers, retail catalogue trade; good propagator, A1 reference; sober, industrious, competent. Chicago or vicinity preferred. Address
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SITUATION WANTED—As foreman or gardener in commercial or private place; Scandinavian, married, 19 years' experience; good references. Would prefer employment with a practical florist in the eastern states. State wages. Address
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SITUATION WANTED—By an energetic, first class single man, as foreman; thorough experience in all branches. Specialist in rose and cut flower growing. Best references. Ready for engagement at any time desired till July 1st. Please address
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SITUATION WANTED—By an intelligent, honest and sober florist; successful grower of cut flowers and plants, 12 years' experience in all branches, five years in Sweden. Competent to take full charge; good recommendation. Address FLORIST, care
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WANTED—A No. 1 rose grower; write stating terms with references.
J. enre J. C. Vaughan, Chicago.

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FOR SALE—Best opportunity to make money ever offered. A first-class florist establishment, and the only one in one of the best college cities, with over 6,000 wealthy people. Splendid cut flower trade all the year. Everything new, with big stock of plants for spring sale. Write for particulars at once. Don't miss this chance. G J, care American Florist.

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Alternantheras, P. major, Aurea nana, Tricolor (Rosea nana), Versicolor	2.50
Plumbago, Capensis and Alba	4.00
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Perennial Phlox, fine assorted, $6.00 and	4.00
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Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00
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Dahlias, named, our selection	5.00
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Fancy Leaf Caladium, fine mixed	6.00
" " named	8.00

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The Leading kinds for cut flower purposes.

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Washington.

I think it would be safe to say that the season is at least three weeks in advance. Among the shrubs and trees in full flower in the parks and reservations just now are the following:

Magnolia conspicua or Chinese white magnolia, one of the most beautiful of the Chinese varieties, a well known low tree, flowers pure white, appearing before the leaves; in the Botanic Garden are two fine specimens of this magnolia, each about 35 feet high, at present a mass of snow white, lily-like flowers and the most beautiful objects imaginable; this variety with us is frequently nipped by the frost before it comes to perfection.

Magnolia Soulangeana, Soulange's hybrid Chinese magnolia, a cross between M. conspicua and M. purpurea, is at its best just now; this is said to be the largest of the Chinese varieties; its low spreading head covered with white flowers with light purple at the base of the petals, is an object worth seeing.

Magnolia Halleana or stellata, a Japanese variety, in every way worthy of a place in every collection of shrubs; it is one of the first of the magnolias to come into flower; its flowers are almost pure white, about three inches in diameter and sweet scented; at present these plants in the Public Park are a perfect mass of flowers.

Cydonia Japonica, in three varieties, the red, light and dark pink, add much to the beauty of our parks. Then there are the very showy forsythias which are covered with their bright yellow flowers and are very attractive; Spiræa Thunbergii and S. prunifolia fl. pl. with their snowy white flowers add much to the beauty of the reservations at this season.

Prunus Pissardii has attracted considerable attention since it came into flower about a week ago; it is a mass of light pink flowers; unfortunately it only remains in flower for a short time, but is shortly followed by the foliage which when first put forth, is of a tender pinkish purple, changing gradually to a red-purple and finally to a rich shade of black purple, which it retains throughout the season; the hot sun does not affect its rich colors, but rather seems to add brilliancy; it is an excellent lawn plant. Thus far but few of the shrubs have suffered during the past winter, and all are showing signs of coming early into flower.

A plant of Dracæna fragrans some 20 feet or more in height, in the large conservatory at Botanic Garden, is in full flower, perfuming the entire house the past ten days. REYNOLDS.

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We offer the following very choice Plants in 2 1-2 in. pots.

	Per 100.		Per 100.
Am. Beauties,	$6 00	Mermets, -	$3 50
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The above stock is very strong and healthy, and propagated from selected wood. We raised the above to grow for ourselves, and it will give better satisfaction than stock which has been raised simply to sell.

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Tidal Wave	"	10 00
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H. P. Roses, 2 year old (budded), at $10.50 per 100; $100.00 per 1000.
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Gooseberries—Industry, 2 year old, at $10.00 per hundred; 1 year old, at $5.50.
Clematis—Jackmanni and Type, 3 year old, $1 80 per dozen, $8.00 per hundred; Jackmanni, 2 year old, Dormant (pot grown), at $3.75 per dozen, $27.00 per hundred.
Hydrangeas Paniculata Grd., 24-30 inches, at $9.00 per hundred
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Cycas Revoluta stems, from 3 to 100 pounds each, at 17½ per pound.

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Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

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ROSES.

200,000--2 1-2 inch pots.
50,000--3 1-2 and 4 1-2 inch pots.

In 150 leading varieties.

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Well branched, 2½ to 3 feet high, $10 per 100. Sample of 8 for $1.00.

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Perles, 3-inch . . . $6.00 per 100; 2½-inch, $1.00.
Meteor, 2½-inch $1 00 per 100.
Mermets, 3 inch $5.00 per 100.

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OUR GREAT SPECIALTY.— THE NEW LARGE FLOWERING CANNAS ARE THE BEDDING PLANTS OF THE FUTURE. WE HAVE ALL THE BEST SORTS AND NONE BUT THE BEST. THE PICTURE SHOWS A VERY SMALL PART OF OUR GREAT DISPLAY OF OVER 4,000 PLANTS AT THE WORLDS FAIR. SEND FOR OUR CATALOGUE GIVING FULL LIST OF VARIETIES WE OFFER.



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STRICTLY AN AMERICAN SEEDLING, and possessed of qualities not common to foreign grown sorts, namely extreme woodiness and vigor, flowers in racemes of great size, substance, and depth of color; color a maroon crimson changing to a deep purple in the old flowers, and lasting a long time, in several cases over a week in good condition after being cut. This variety will be highly prized when known, on account of its peculiar lasting qualities, and being so well adapted to our hot suns and dry atmosphere—practical florists will understand this.

Price, good plants, $1.00 Each; $9.00 per Dozen. Very strong plants, home-grown, $1.50 Each; $15.00 per Dozen.

P. S —Plants can be had of the undersigned, or of J. C. Vaughan, Chicago; or Phœnix Nursery Co., Bloomington, Ill.

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12 Choice leading kinds. Large flowering
Two years . . $3 per doz.; $22.50 per 100
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SMILAX SEEDLINGS,
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THE MOST YALUABLE OF ALL HARDY FLOWERING SHRUBS.

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Choose from the Largest Stock in America.

One Year, 12 x 15 inches, fine,	$3.50 per 100;	$30.00 per 1000
Two Years, 3 x 3½ feet, fine,	4.00 "	35.00 "
Two Years, extra selected, 3 x 3½ feet, strong,	5.00 "	45.00 "
Three Years, 3 feet, strong, nicely branched, twice transplanted,	6.00 "	50.00 "

Packed in best manner and delivered to Express or Railroad free of charge on receipt of proper remittance.

Address all orders **The Dingee & Conard Co., West Grove, Pa.**

P. S.—We have all the leading and popular shrubs in quantity and assorted sizes; field grown. Prices will suit you. Ask for list.

Must be Sold. . . .

5,000,000 HARDY CUT FERNS.

Price to suit the times.

SPHAGNUM MOSS in quantity, 50 cents per bbl.

H. E. HARTFORD, 18 Chapman Place, BOSTON.



FANCY. DAGGER.

4,000,000 EVERGREEN CUT FERNS

ESPECIALLY FOR FLORIST'S USE.

$1.25 PER THOUSAND FERNS.

IN LOTS OF 5000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

L. B. BRAGUE, Hinsdale, Mass.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Catalogues Received.

Meehan's Nurseries, Germantown, Pa., nursery stock; C. H. Joosten, New York, fostite; Boskoop Nursery Ass'n, Boskoop, Holland, plants and nursery stock; E. H. Krelage & Son, Haarlem, Holland, bulbs; P. Lambert, Trier, Germany, roses; C. B. Whitnall & Co., Milwaukee, Wis., ornamental trees, shrubs, etc.; Whitnall Floral Co., Milwaukee, Wis., seeds and plants; Vilmorin-Andrieux & Co., Paris, France, tree and shrub seeds; Thos. Immerschitt, Aschaffenburg, Bavaria, palm and conifer seeds; Max Deegen, Kostritz, Germany, roses; Hart & Crouse, Utica, N. Y., Royal hot water heaters; Samuel C. Moon, Morrisville, Pa., trade list nursery stock; The Cottage Gardens, Queens, N. Y., carnations; W. & J. Birkenhead, Sale, England, ferns and selaginellas; Mrs. Maud M. Briggs, El Paso, Texas, trees, shrubs and plants; C. Ravier, Mobile, Ala., plants; J. C. Gibson, Woodbury, N. J., plants and rooted cuttings; H. P. Kelsey, Kawana, N. C., nursery stock; Lord & Burnham Co., Irvington-on-Hudson, N. Y., greenhouse heating and ventilating apparatus.

Otaheite Oranges.

I notice your correspondent's inquiry, page 599, about Otaheite oranges. I have grown them rather extensively for the last few years, about 40,000 of them last season, and consider them one of the most interesting and desirable plants of the easiest culture for an amateur's collection. In fact they will grow where a geranium would and require no more care or attention; if anything, they will get along with less. I had a photograph taken last summer of a plant which was three years old, grown in an ordinary sitting room, with 25 fair sized oranges on it. The plant was not over 30 inches high.

I grow them from cuttings exclusively and find they grow as easy as a rose, and with proper care will bloom when 12 months old when not more than 10 or 12 inches high. This you see is much less trouble than grafting.

I was much interested in a report of a lady customer from Florida about a small plant of O. orange I had sent her by mail two years previous to her writing, when she told me in the rich Indian river bottom soil the plant had grown seven feet high and that big across, had a dozen good sized oranges the first year, and at the time of her writing was full of blossoms. She said it was anything but a dwarf. As a whole I have received more satisfactory comments from customers about this plant than anything else I have sent out. G. DROUSCH.

Columbus, O.

THE GOOD RESULTS OF YOUR

EASTER TRADE

SHOULD PROMPT YOU NOW TO SENDING FOR THE SET OF

Long's Florist's Photographs

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Don't put it off longer. You are money out each day that you do without them. Address for Catalogue

DAN'L B. LONG, *Publisher,* **Buffalo, N. Y.**

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Wholesale and Commission Florists,

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We are prepared to fill your orders with First-Class Flowers. Give us a trial order.

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CUT STRINGS *8 TO 12 FEET LONG, 50 CTS.*

Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.

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New England Agent for the GREAT ANTIPEST.

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Wholesale Florists,

NO. 2 BEACON STREET,

Near Tremont St., **BOSTON, MASS.**

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PHONE MAIN 223. **CHICAGO.**

Special attention given to shipping orders.

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Florists' Supplies, Wire Designs, Bulbs, Long's Florists Photographs (see large ad. Catalogues, Lists, Terms, etc., on application.

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Wholesale Florist

REAR OF 42 S. 16th STREET,

Philadelphia, Pa.

W. ELLISON

WHOLESALE

Cut Flowers AND Florists' Supplies

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St. Louis, Mo.

C. A. KUEHN,

(Successor to ELLISON & KUEHN),

WHOLESALE

FLORIST,

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St. Louis, Mo.

A complete line of Wire Designs.

Cut Smilax, 15c. per string.

Smilax plants, 1 yr., strong, $2.50 per 100; $20 per 1000. Smilax seed, crop of 1898, 75c per oz. Special attention to orders by wire. JOSEPH E. BONSALL,

Wholesale Florist, 308 GARFIELD AVE., SALEM, O.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

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WHOLESALE CUT FLOWERS.
SEEDS, BULBS AND ALL FLORISTS' SUPPLIES.
Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H. SUNDMACHER, Sec'y and Treas.
Kennicott Bros. Co.
34 & 36 RANDOLPH STREET, CHICAGO.
WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.
WIRE WORK A SPECIALTY.
General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

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WHOLESALE GROWERS OF
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Olsen & Hughes,
WHOLESALE CUT FLOWERS,
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Tel. Main 4786. Consignments Solicited.

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53 West 30th Street, NEW YORK.
☞ Send for quotations on Choice Stock.

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JOBBERS IN
FLORISTS' SUPPLIES,
METS, FLORISTS' VASES.
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Wholesale Markets.

Cut Flowers.

NEW YORK, Mar. 26.

EASTER PRICES.

Roses, Perle, Cusin, Watteville	4.00@ 8.00
" Meteor, Mermet, Bride	5.00@10.00
" Bridesmaid	8.00@12.00
" Beauty	5.00@40.00
" Hybrids	5.00@40.00
Carnations	2.00@ 4.00
Harrisii Lilies, Calla	6.00@10.00
Violets	.75@ 1.00
Daffodils, Tulips	2.00@ 3.00
Valley	1.00@ 2.00
Roman Hyacinths	1.00@1.50
Mignonette	2.00@ 6.00
Smilax	8.00@12.00
Adiantum	1.00
Lilacs, per bunch	.50@ .75

BOSTON, Mar. 26.

EASTER PRICES.

Lilies, Longiflorums	15.00@18.00
" Harrisii	10.00@15.00
" Candidums	6.00@ 8.00
Roses, Niphetos, Gontier	5.00@ 6.00
" Perle, Sunset	6.00@ 8.00
" Bride, Mermet	8.00@12.00
" Jacqs, Magna Charta	12.00@25.00
" American Beauty, Brunner	25.00@50.00
Callas	10.00@15.00
Carnations	3.00@ 5.00
Violets, Pansies	75@ 1.00
Lily of the valley	2.00@ 4.00
Hyacinths	2.00@ 3.00
Daffodils, Tulips	3.00@ 4.00
Spiræa, stock	2.00@ 3.00
Mignonette	2.00@ 4.00
Adiantum	1.00
Smilax	12.50
Asparagus	50.00
English Primroses, per bunch	12c
Heath, per bunch	.50

PHILADELPHIA, Mar. 26.

EASTER PRICES.

Roses, Perle, Gontier, Niphetos	3.00@ 5.00
" Cusin, Watteville, Hoste	4.00@ 6.00
" Bride, Mermet, La France	6.00@ 8.00
" Kaiserin, Bridesmaid, Testout	10.00@12.00
" Belle, Beauty	10.00@20.00
" Laings	12.50@25.00
" Brunner	30.00@40.00
" Jacqs	12.50
Carnations, H. Keller	6.00
" Ophelia, Sweetbrier, Daybreak	2.00
" Edna Craig	2.00@ 3.00
Valley	2.00@ 3.00
Romans, Paper white	1.50@ 2.00
Daffodils	3.00@ 4.00
Smilax	12.00@15.00
Adiantum	1.00@ 1.50
Violets	.50@ 1.00
Mignonette	1.50@ 2.00
Asparagus	50.00@75.00
Harrisii lilies	8.00@10.00
Callas	6.00@ 8.00
Freesia	1.00@ 1.50
Tulips	4.00@ 5.00
Cattleyas	40.00
Orchids	15.00@40.00

CHICAGO, Mar. 26.

EASTER PRICES.

Roses, Beauty	25.00
" Hybrids	30.00@35.00
" Jacqs	16.00@18.00
" Meteor	8.00@10.00
" Bride, Mermet	7.00@ 8.00
" Niphetos, Gontier	4.00@ 6.00
" Perle	3.00@ 5.00
" La France	6.00@10.00
Carnations, long	2.00
" fancy	2.50@ 3.00
Violets	.50@ 1.00
Harrisii	10.00@15.00
Romans, narcissus	2.00@ 3.00
Valley, Tulips	3.00@ 4.00
Dutch hyacinths	8.00@10.00
Smilax	10.00@15.00
Asparagus	50.00

CINCINNATI, Mar. 26.

Roses, Beauty	10.00@35.00
" Mermet, Bride	4.00@ 6.00
" Testout	8.00
" Perle	3.00@ 4.00
Carnations	1.00@ 3.00
Tulips	3.00@4.00
Narcissus	3.00
Daffodils	2.00@ 3.00
Valley	3.00
Romans	2.00
Violets	.75@ 1.00
Callas, Harrisii	8.00
Pansies	.75@ 1.00
Smilax	10.00@15.00
Adiantum	1.00

ST. LOUIS, Mar. 26.

EASTER PRICES.

Roses, Perles, Niphetos, Wootton	5.00@ 7.00
" Bride, Mermet, Meteors	8.00@10.00
" Watteville, Hoste, Cusin	6.00@ 8.00
" Bridesmaid	10.00@12.00
" La France, Albany	6.00@ 8.00
" Beauty	5.00@50.00
Carnations, long	1.50@ 2.00
" fancy	2.00@ 3.00
" short	1.00
Valley	3.00@ 5.00
Romans, Narcissus	3.00@ 5.00
Tulips	4.00@ 5.00
Daffodils	1.00@ 5.00
Violets	.25@ 1.50
Harrisii, Callas	8.00@12.00
Mignonette	2.00@ 6.00
Smilax	15.00
Adiantum	1.25
Lilac, per 100 sprays	5.00@ 6.00

BUFFALO, Mar. 27.

Roses, Beauties	15.00@25.00
" Jacqs	12.00@15.00
" Brunners, Hybrids	12.00@15.00
" Mermet, Bride	7.00@10.00
" Meteor	8.00@12.00
" Gontier, Perle, Hoste	5.00@ 6.00
" Cusin, Watteville, Niphetos	5.00@ 6.00
Carnations, long	1.50@ 2.00
" Daybreak and Wm. Scott	2.00@2.50
Tulips, Daffodils	3.00@ 4.00

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49 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers
OUR SPECIALTIES:
AMERICAN BEAUTIES,
METEORS,
BRIDESMAIDS.

CUT FLOWERS.
ROSES, standard varieties and novelties
Carnations, all the new sorts in finest quality.
VIOLETS, MIGNONETTE AND VALLEY.
FIRST QUALITY STOCK.
WHOLESALE ONLY.
THOS. YOUNG, JR.,
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Roses Shipped to all points. Price list on application.

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34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, at Toronto, Ont.

SANTA CLARA onion seed growers report cold rain and poor outlook for onions planted on the lowest ground.

INJURIOUS INSECTS and the use of insecticides, is one of the many useful little manuals published by W. Atlee Burpee. It contains 185 illustrations of insect pests, and gives the most approved insecticides for each and every one. A very useful handbook for everyone interested in farm, garden or greenhouse.

Detroit.

Robert Watson, for many years foreman on Belle Isle Park, has embarked in business and will make the carnation his specialty. He has 3,500 feet of glass devoted to carnations and one house in course of construction, 80x18, will be devoted to sweet peas.

The central market has been abolished, compelling many to seek other quarters to dispose of their plants, etc. Some of the more enterprising florists have rented stores on our main thoroughfare. This move will have a tendency to improve the plant trade with florists. A great deal of second-class stock found an outlet in our central market.

Andrew Ferguson, wholesale grower, will erect an office and greenhouse on Woodward and Willis avenues as soon as arrangements can be made for next winter's trade.



New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from $1 order).

A. BLANC,
Engraver for Florists,
PHILADELPHIA, PA.

SEEDS!
PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.



TRY DREER'S
GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

Water Hyacinths.
PONTEDERIA CRASSIPES.
Free by mail, $3.00 and $5.00 per 100.
CANNA FLACCIDA.....$3.00 per 100.
A. H. CRANE,
NASHUA, FLA.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Established 1830.

R. VAN DER SCHOOT & SON,
HILLEGOM, - HOLLAND,
Largest Growers of
HYACINTHS, TULIPS, NARCISSUS,
SPIRAEA, LILIES OF THE VALLEY, ETC.
HEADQUARTERS FOR HIGH GRADE FORCING BULBS.
Wholesale Importers should write us for Prices
OUR NEW TRADE LIST NOW READY.

HOLLAND FORCING BULBS

Our Specialties for this Season will be
HYACINTHS, All Leading Varieties.
Small, pure white Hyacinths, to succeed the Romans.
Scarlet van Thol Tulips, La Reine, Chrysolora and other market vars.
Double Van Sion Daffodils in any quantity.
Narcissus Bicolor Horsfieldii, Sir Watkin, Poeticus ornatus, Albus plenus odoratus.
Spiræa compacta multiflora and Spiræa astilboides, two new sorts now much in demand in Europe.
Lilies and other bulbs and bulbous roots for forcing, etc.
Send list of what you need to
SEGERS & CO.
BULB GROWERS,
LISSE, near Haarlem, Holland, Europe.
Registered cable address SEGERSCO, Lisse, Holland.

ESTABLISHED 1874.
One customer writes: "The bulbs received of you last fall were very satisfactory." And another wrote last October: "The bulbs you forwarded us have opened up very satisfactory indeed, being fine, large bulbs, and in good condition."

Summer Delivery
(JULY AND AUGUST.)
PALM SEEDS (from California and Australia).
TREE FERN STEMS.
FREESIAS. We will have a million of FREESIAS running from 7-16 to ¾ of an inch.
CALLAS. Dry roots in all sizes.
LIL. LONGIFLORUM.
CALIFORNIA SMALL BULBS.
Brodiæas, Calochortus, Fritillarias.
Advance Price List ready. Send for it. We want your orders now. Address
H. H. BERGER & CO.,
SAN FRANCISCO, CAL.

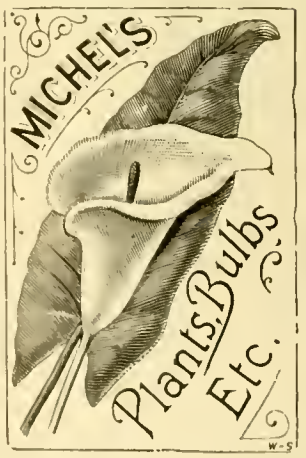
Ernst Reimschneider, Altona, Germany,
BERLIN LILY OF THE VALLEY PIPS
Extra selected quality, in cases of 3000 pips.
Now in COLD STORAGE WAREHOUSE. Also for importation on orders. SEEDS, Dried Flowers, Grasses, etc., and Spring Bulbs.
SOLE AGENTS
C. C. ABEL & CO., P. O. Box 920, NEW YORK.

EXTRA STRONG, WELL ROOTED
MARIE LOUISE VIOLETS.
Now Ready. $5.00 per 1000, 10c. per 100.
MISS P. A. BAKER, Media, Pa.

FIFTY THOUSAND
PEARL TUBEROSES
F. O. B. NEW YORK.
We offer selected bulbs of above, from four to six inches in circumference, for present shipment, at $9.00 per 1000. Orders accepted subject to being unsold.

SWEET PEAS, California grown.
We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.
(SHERWOOD HALL NURSERY CO.)
427-9 Sansome St., *San Francisco, Cal.*



Write for Wholesale List.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Hulsebosch Brothers,
OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LILIUM SPECIOSUM ALBUM	$ 6.00	
" " ROSEUM	5.00	
" " RUBRUM	5.00	
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors	4.00	35.00
CONVALARIA MAJALIS, German pips	1.00	8.00
TUBEROSES, Pearl and Tall, A1 (big) bulbs	.90	7.50
LOW BUDDED ROSES, in sorts, Dutch Stock	9.00	
English Stock	11.00	

All other plants or shrubs can be ordered for March, '91 delivery.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.

HERRMANN'S SEED STORE
113 East 34th Street,
Near Long Island Ferry, NEW YORK.
MIGNON ASTER.
The Best for Cut Flowers.
PINK WHITE. PER OZ. $1.50.
PRICE LIST FREE ON APPLICATION.

HEALTHY CARNATION PLANTS Make Money for the Grower.

OUR CUSTOMERS ARE ALL COMMENDING OUR STOCK AND ENDORSING OUR SYSTEM OF GROWING.



This Photograph was taken in the Month of December and Represents our Daily Shipments.

See What They Say: Carnations are Certain to PAY when you Buy your Cuttings from THE COTTAGE GARDENS.

TESTIMONIALS.

SEAWANHAKA GREENHOUSES, W. L. Swan, Proprietor,
OYSTER BAY, L. I., January 25, 1894.

Last fall, to complete my stock for bench planting, I purchased of you a lot of carnations. It gives me pleasure to assure you that they were entirely satisfactory, and the *best* carnation plants I have ever purchased. It is a great blessing to Long Island florists to have near-by facilities for purchasing first-class stock such as your establishment is affording, and I hope you will be liberally patronized as you so well deserve. Wishing you the fullest measure of prosperity, I remain, Respectfully yours, W. L. SWAN.

WILKESBARRE, PA., January 24, 1894.

The carnations procured from you last fall were the healthiest and cleanest stock I ever saw. They have done excellently well. As I required these for stock, health and vigor, of course, was the great desideratum. In these days of rust, bacteria and all the ills which affect the carnation, it is a great pleasure to know where to procure stock free from these diseases.

Yours very truly, GEO. E. FANCOURT, Rose Grower.

TARRYTOWN-ON-HUDSON, January 25, 1894.

The carnations obtained from you last spring were obtained for sale and propagation purposes only. The plants were very satisfactory, being strong, healthy, well rooted cuttings, and we were very much pleased with them.

Very truly yours, F. R. PIERSON CO., Florists.

BUFFALO, N. Y., January, 1894.

I had from you last spring 500 Daybreak and 500 Wm. Scott carnations. I am glad to be able to say that the plants of both turned out remarkably fine, free from disease of all kinds. The bed of Wm. Scott has been loaded with buds and flowers from September 15th, and is finer to-day than ever and a sight that is good to dispel the blues.

Respectfully yours, WM. SCOTT, Florist.

1623 DORCHESTER AVENUE, DORCHESTER, MASS., Jan. 26, 1894.

The carnations that I bought of you last season were healthy, well rooted, true to name, and full count. The most satisfactory lot I have ever received from a commercial house. Wishing you all prosperity at your new place and awaiting your list of novelties, I remain,

Yours, etc, J. A. FOSTER, Florist.

BELLMORE, L. I., January 26, 1894.

The carnations purchased of you proved to be healthy and vigorous. They were very satisfactory. Your description of the merits of the new varieties was not overdrawn, thereby establishing our confidence in your stock for the future.

Yours respectfully,
R. P. JEFFREY & SON, Nurserymen and Florists.

SEA-SIDE GREENHOUSES, SOUTHAMPTON, N. Y, Jan. 25, 1894.

Please send your price list of rooted cuttings as soon as issued. Those we received from you last season were first-class in every respect and have done well. We wish particularly to say a good word for Wm. Scott and Mme. Diaz Albertini. Both are very fine.

Yours truly, HALSEY & EDWARDS.

Send for our Illustrated and Descriptive Catalogue, which gives in full our methods of growing and tells how we fight the rust.

THE COTTAGE GARDENS,
QUEENS, N. Y.

Baltimore.

The trade in cut flowers and flowering plants in this city was without precedent. Fine weather brought out everything, and the market men could not complain of the temperature, for a more perfect day could not be desired than Saturday in every respect.

Prices were perhaps a shade below last year, but the quantity of stuff disposed of was simply enormous.

There were many points of interest connected with the decorations and sales, but a scribe exhausted with loss of rest and hard work will be excused for briefly summarizing them. Messrs. Halliday Bros. had the best hydrangeas secn, Saml. Feast & Sons led the market with superb azaleas, Mrs. M. J. Thomas had the usual superbly arranged show window, Brackeuridge & Co. had their Easter sale at 110 N. Charles St., a big store crowded with bloom, Jas. Pentland, Jno. Cook and W. J. Halliday made their square a blaze of floral beauty.

The church decorations were fully equal to any ever seen here.

It is to be hoped that the ice is broken and hard times have finally disappeared.

MACK.

Correction.

In our last issue there was a typographical error in the article on the arrangement of flowers. In the fifth paragraph, third column of first page, the line, "It will close again at night," etc., should have appeared in the following paragraph, and apply to the tulips instead of the carnations.

Begonias.

	Per 100
Flowering varieties	$3 00
Paul Brnant, 3 in. 8 cts. each; 2½ in	6 00
Rex, in variety	5 00
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Free from Disease and First-Class in every way.

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- Wm. Scott
- Edna Craig
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- Daybreak
- Cartledge
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These and other standard sorts $12 per 1000 and upwards

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	Per 100	Per 1000
DAYBREAK	$2 50	$20 00
BUTTERCUP	4 00	35 00
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Is the most beautiful in form and prolific in bloom of any carnation that has been brought to our notice up to the present time.

We will read to you a letter under date of March 10. It is from the well-known W. Raymond, Esq., proprietor of the **Raymond Flower and Seed Store**, Boston, Mass., and also of the **Raymond Nurseries**, Pasadena, California.

"The box of Carnation blooms that you sent to me at Cambridge (Mass.), were duly received, and I find them so satisfactory, that I send herewith a check for $78, which with the $12 sent you recently will make $90.00, and you can change my recent order making it 1000 instead of 100. I thought that our carnations in California were as large as could be grown, but your **'HELEN KELLER'** beats them all." All of which is endorsed by those who have seen it **Growing** and **Blooming.**

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NOW READY.

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Lizzie McGowan, J. J. Harrison, Nellie Lewis, Grace Wilder, American Flag, Golden Gate, $1.50 per 100; $12.50 per 1000.

Mrs. Fisher, Hinze's White, Portia, Hector, Tidal Wave, $1.25 per 100; $10.00 per 1000.

Also Rooted Cuttings of **MARIE LOUISE VIOLETS**, $6.00 per 1000. A fine lot of Violet clumps full of cuttings, at $5.00 per 100. Ready to deliver April 1st and after.

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BYRON D. HALSTED.

New Brunswick, N. J.

LENOX, MASS.—A number of the leading gardeners in Lenox and vicinity having in view the encouragement and advancement of horticulture have organized the Lenox Horticultural Society. Although in existence less than two months the membership has already reached thirty-five, ten new names being added at the meeting on March 17th. Mr. E. J. Norman is president, and Mr. A. H. Wingett, Secretary. The meetings have been held at the office of Mr. J. F. Huss, gardener to Mr. George H. Morgan. At the March meeting a vote of thanks to Mr. Huss was passed expressing the indebtedness of the society to him for his zeal in its behalf and his kindness in giving them the use of his office. It is proposed to hold an exhibition in September, and schedule of premiums is in course of preparation.

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100,000 PANSIES, in the seed bed, at $2.00 per 1000, and about 50,000 transplanted in flats, at $1.00 per 1000.

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Pansy Seed, pure white $1 per pkt. of 2500 seeds.
Large yellow, dark eye, $1 " " "
Snowflake Daisies, fine plants, $2 per 100.

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10,000 seedlings from our XX and XXX progressive seed will give the most splendid new kinds, all perfectly clean and healthy, 3-inch, strong, fine, in bud, $2.50; flats $1.50 per 100, seedlings same rate; special rates per 1000.
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5,000 Gem Feverfew, 5,000 Golden Marguerites, 5,000 Dwf. Lobelias, 5,000 Golden Feather and C. Gymnocarpa, the last two seedlings small pkts. $1.50, rooted cuttings 75c. per 100.
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Any of the above plants 25 at the 100 rate.

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25 plants at hundred rate. Special prices for other varieties on application.

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Toronto.

The Gardeners and Florist's Association held its regular monthly meeting last Tuesday. It was well attended and extremely lively. A very clear and instructive paper was read by Mr. Geo. Price on "The cultivation of Mushrooms in winter and spring in cellars, etc. "The matter of suggesting judges to the societies holding the summer and fall shows was taken up and brought out lots of tall talk. Certainly the large majority of this association favor the single judge system and a change every year, the latter not because of doubts as to the integrity of any judge but in order to obtain the experience of different experts and to prevent sameness of style. There are however still a few who think three judges better than one. The trouble with three judges as one of the members remarked is that "one does not know who to kick" and that two duffers can overrule one man who does know his business.

Mr. W. Muston, of Messrs. Spears & Muston, brought down to the meeting some carnations Richmond and Albertini which one of the committee appointed to report on them said were the best he had ever seen. Some of the blooms of both sorts were fully 3½ inches over. The color of the Richmonds was especially bright and striking.

Trade has picked up considerably this week and at this date (Thursday, 22nd) the prospects are good for a big business being done the next two days with prices about as follows: Brides and Mermets $1 to $1.50, carnations (may be scarce) 40c. to 60c., lily of the valley 60c. to 75c., lilies 15c. per bloom, spiræa 50c. to $1 each, lilies (plants) 50c. to $2.50 per pot.

24th: Weather fair and cool, perhaps not quite fine enough to do the largest amount of business possible, but might be a great deal worse. E.

DETROIT, MICH.—The partnership heretofore existing between Frank Halznagle and John Noel, doing business under the firm name of Holznagle & Noel, at Highland Park, has been dissolved by mutual consent. The business will be continued by Frank Holznagle.

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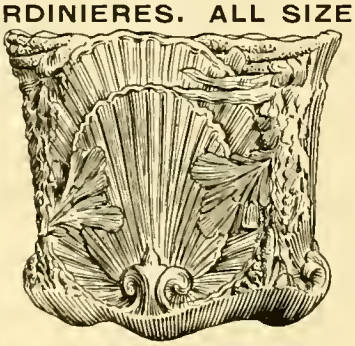
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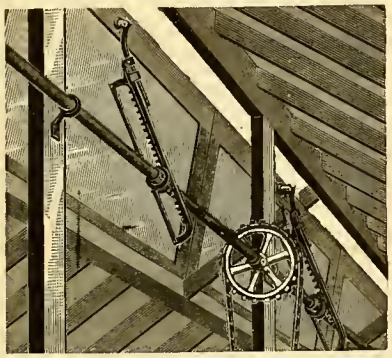
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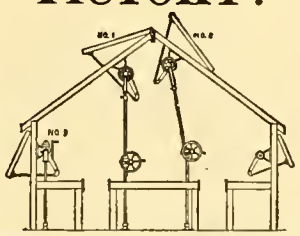
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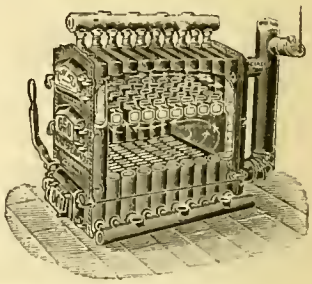
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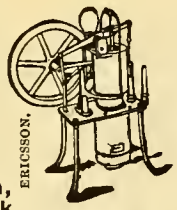
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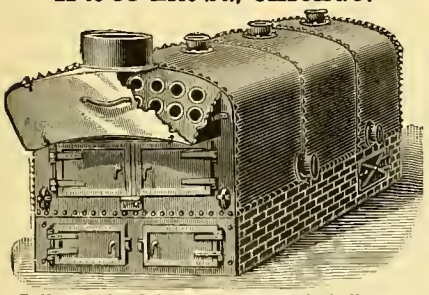
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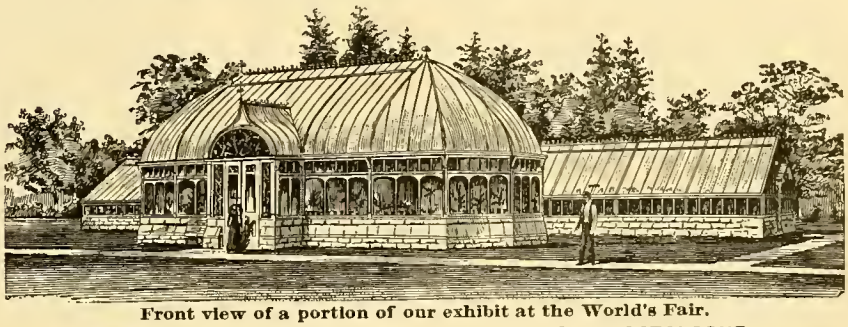
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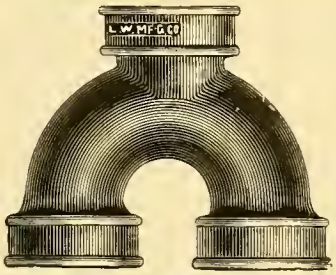
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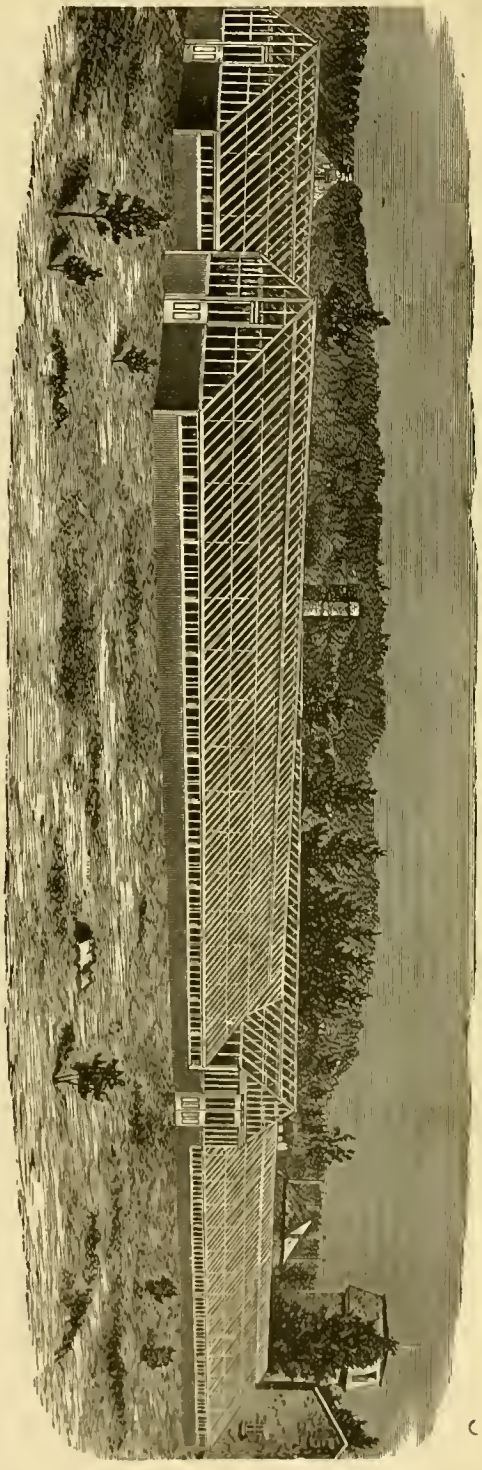
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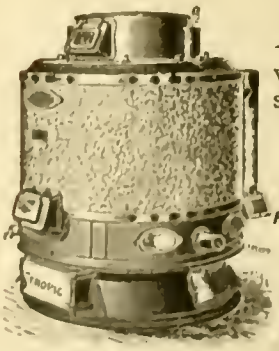
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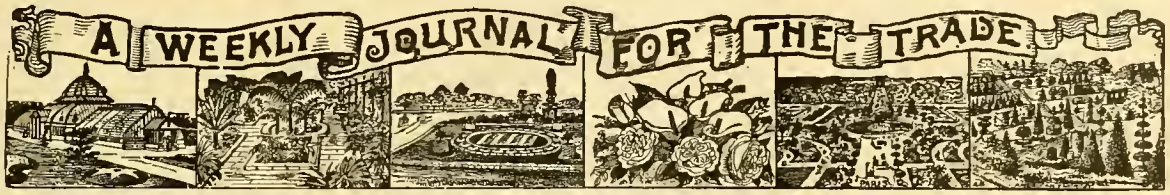
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J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. Tenth annual meeting at Atlantic City, N. J., August, 1894.

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Chicago Cut Flower Exchange.

A special meeting of the board of directors was held yesterday (4th inst.) There being no quorum no formal action was taken. The members present discussed in an informal way a proposition to continue business at the old stand, and make an assessment of 50% on the stock, every member present being in its favor. It was finally decided to bring the matter up for final action at the next regular meeting of the board which will be held on Monday next.

NEWTON, MASS.—The Newton Horticultural Society is soliciting contributions from the citizens to aid in its work of removing the tent caterpillar from Newton. A good beginning was made last year and it is hoped that with constant vigilance the greater part of the annual loss from the ravages of this pest may be avoided.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

THE EASTER TRADE

Reports From all Sections.

The following reports were sent in response to these questions: Were the total sales (meaning the amount in money value and not in quantity of flowers, etc.) greater or less than last year, and if so, about what was the percentage of increase or decrease? How did retail prices obtained compare with those of last year? Was the supply of flowers, etc., equal to the demand? How did they compare with last year in quality? In view of the low wholesale prices did you buy more than in previous years, and if so was it all sold at a profit? Did you note any marked increase in the call for any special flower, etc.? Did you note any interesting peculiarity in the trade this year not covered in above questions?

NASHUA, N. H.—Easter trade here was the best noted within ten years of experience.

CLEVELAND, O.—No noticeable change in sales or prices. Roses scarce. Quality a little better.

ELGIN, ILL.—Gross sales and prices were each one-third less. Supply more than equal to the demand. Quality good.

ERIE, PA.—Small increase. Prices same as last year. Supply short. Quality better. Increased call for carnations and violets.

LAWRENCE, KAN.—Decrease of about 10%. Prices same as last year. Supply of roses short. Increased call for Harrisii lilies.

LOS ANGELES, CAL.—Increase of about 25%. Prices about same. Supply short. Quality superior. Larger sales of narcissus.

WILMINGTON, DEL.—Much larger. Prices averaged about same. Supply of cut flowers was short. Not enough hyacinths to meet the demand.

FT. WAYNE, IND.—Small increase. Prices lower. Supply short. Quality better. Increased call for roses, carnations, violets and Harrisii. Less call for bulbous stuff.

ELIZABETH, N. J.—About 10% less. Prices about the same. Supply equal to demand with exception of carnations. Quality superior. Increased call for carnations.

BLOOMINGTON, ILL.—No noticeable change in sales or prices, except on callas, which were lower. Supply equal to demand. Quality superior. Increased call for carnations.

EVANSVILLE, IND.—Increase of about 10%. No change in prices. Supply short, roses scarce. Quality not so good on account of previous hot weather. Roses went first, Harrisii second.

SALT LAKE CITY, UTAH.—A decrease and prices lower. Supply was equal to demand. Quality about same. What we bought was sold at a profit. Increased call for Bermudas and carnations.

NASHVILLE, TENN.—An increase of 25% in gross sales with prices 25% lower. Supply not quite equal to demand. Quality better in every way. Increased call for roses. Very few flowers shipped in.

TOLEDO, O.—About the same. Prices 10% lower. Bulb stuff was in excess of demand, roses scarce. Quality better. The cheaper flowers and plants were most in demand. Very few expensive plants sold.

TOPEKA, KANS.—Decrease of 25%. Prices about same. Supply ample except of roses and carnations. The weather turned cold and disagreeable on Saturday and we think that was the cause of the falling off in sales.

MEMPHIS, TENN.—Much larger. Prices were good as Easter was early and outside flowers were scarce. Supply short, roses being very scarce. Made a good profit on stock purchased. Carnations sold especially well.

SPRINGFIELD, MASS.—The Easter trade was larger than ever. The churches did not do much this year but the general public bought more extensively than heretofore. Carnations were the only flowers which ran short.

READING, PA.—A trifling decrease. Prices of roses were 25% lower. Supply equal to demand. Roses were not quite up to the mark in quality. Had a larger number of customers but the call was for cheaper grades of flowers.

HAMILTON, ONT.—Increase of 15 to 20%. Prices lower, Good supply. Quality excellent. Pot plants of good quality had the call. Better cash trade than we ever had before, credit being the exception instead of the rule as heretofore.

KANSAS CITY, MO.—Slight decrease and prices lower. Supply good. Quality superior. The cold weather hurt trade sadly. We were all prepared to do a big business but had to sell some stock at cost in order to come out even.

PAWTUCKET, R. I.—The trade for plants here at Easter is on the increase. This was noticeable in azaleas especially, which if in good condition sold at sight. Lilies and other potted plants also sold well. There was no demand for roses.

AUBURN, MAINE.—The heaviest demand here was for cut flowers, principally carnations. The only overstock was in lilies. There was less decorating and less demand for plants than usual and business compared with 1893 fell off about one-third.

YOUNGSTOWN, O.—Increase of about 15%. Retail prices about one-fourth lower. Supply was equal to demand. Quality first-class. Increased call for low priced flowers such as carnations, daffodils, etc. Sold more cut flowers this year than plants.

LYNN, MASS.—Larger and better prices. Shortage of flowers. Quality superior. Could not supply the demand. Increased call for lilies. Daybreak and Tidal Wave carnations sold at from $5 to $6 per 100. Jack roses, Mermets and Brides were in great demand.

DETROIT, MICH.—About the same and little change in prices. Supply ample. Quality somewhat better. Larger call for pot plants of good quality. With cut violets, roses, carnations and valley one could satisfy 90% of the demand. Bulbous stuff out of date.

RICHMOND, VA.—One-third larger. No change in prices. Supply good in everything but roses and violets. Quality better. Increased call for violets and Beauties. J. H. Harvey & Co. had a very large stock and rented two large stores for handling Easter sales.

CINCINNATI.—Easter trade in this city was all that could be wished for. The florists all seem to be satisfied. Prices were low, but I consider that a good thing for the reason that it enabled all classes to buy flowers, and it will create additional demand for same.

DANVERS, MASS.—Easter trade was larger than any previous season, notwithstanding the hard times. The call for candidum lilies as potted plants was larger than for either Harrisii or longiflorum. Carnations were in great demand and the supply early exhausted.

SAVANNAH, GA.—Nearly double on account of Easter being so early and few outside flowers to be had. Prices about the same. Supply equal to demand. Roses were better in quality owing to continuous clear weather. More memorial designs were ordered than usual.

SCRANTON, PA.—Increase of 10%. Cut flower prices were 25% higher but on plants were 10% lower. Supply of cut flowers was short but there was a large supply of plants. Quality good. Great call for violets. In the face of the hard times the demand was equal to last year or greater.

BUCKSPORT, ME.—Easter business was somewhat lighter than usual but this may have been due to a heavy snow storm on Friday. There was an increased demand for carnations over former years and the supply was short. Bulbous stock sold well. There was little church work.

UTICA, N. Y.—Increase of 25%. Prices averaged about the same. Short supply of roses and carnations. Quality good. In cut flowers there was an increased call for finer grades. Bulb stuff not much wanted. In potted plants there was a large demand for first-class azaleas, lilies, etc.

SYRACUSE, N. Y.—Increase of at least 25%, but prices were 25% lower. Supply of roses, carnations and violets was short. Quality excellent. Increased call for the three flowers noted above. The sale of potted plants was far in excess of previous years and all went at satisfactory prices.

HARRISBURG, PA.—Much larger. Prices about same. Supply not equal to demand. Quality better. All blooming plants sold well, especially hyacinths. The demand was much in excess of the supply. The weather was very fine and it seemed as though everybody wanted to buy flowers.

PORTLAND, MAINE.—The demand for loose cut flowers seems to have fallen off from last year and that for baskets and other set pieces increased, the willingness to pay good prices for good material being especially noticed. Lilies and roses sold out clean. Plants did not sell quite as well as was expected.

BRATTLEBORO, VT.—There was a larger demand than usual for plants. The demand for cut flowers was also good and although there was a large supply they sold out very clean. The principal call was for lilies, carnations, roses and violets. For hyacinths, tulips and narcissus the demand was only fair.

NEW ORLEANS, LA. Decrease of about 25%. Prices somewhat lower. Supply not quite so good on account of cloudy weather. Quality inferior. Increased call for lilies. Cut flowers were more in demand than made-up work. The building in which was the store of U. J. Virgin was destroyed by fire March 15.

TERRE HAUTE, IND.—Sales of cut flowers about same as last year. Prices also same. Supply short. Quality better. Increased call for roses and carnations. The cold wave on Saturday and Sunday killed the plant trade and hurt sales of flowers too. It was too cold to promenade and therefore no flowers were worn.

CROMWELL, CONN.—Easter trade was very satisfactory and everything sold well except hyacinths, and Dutch hyacinths especially were sold with difficulty. Roses, carnations, violets and lilies were in best demand and although there was a heavy stock available they were all cleaned out at usual Easter prices.

CAMDEN, N. J.—Increase of about 20%. Prices about same. Supply short. Quality impaired by absence of sun. Cut flowers and plants went with a cyclone rush earlier than usual. Sold largely of Harrisii lilies and could not get enough hyacinths. Good carnations were in great demand. Not so much call for daffodils.

ST. ALBANS, VT.—Easter trade was fully twenty-five per cent. better than in previous years. Potted plants of any kind that had blossoms were all sold out early and many more could have been disposed of. There was a heavy demand for fine cut roses, carnations and lilies. Roses were in short supply in this section.

HAVERHILL, MASS.—Easter trade was good in cut flowers. The supply of roses and carnations was a little short but lilies were abundant, and the prices being lower than ever before they sold readily and in fact every thing was well cleaned out. There was an increased demand for potted plants, especially for lilies and azaleas.

LOUISVILLE, KY.—Slight increase, with prices somewhat lower. Supply ample except of Beauties and violets. Quality not quite so good owing to extreme warm weather. More loose flowers and fewer designs were used. The churches were generally well decorated. One church used 1,000 lilies. The general run of orders were smaller than last year.

MILWAUKEE, WIS. — No noticeable change but prices were considerable lower. Shortage on carnations. Quality about equal. Bought more and sold out cleaner; being scarcely any waste profits were larger on same amount of gross sales. Anything pretty in way of a pot plant, costing not over $2, sold well. Still less made up work than ever before.

LOWELL, MASS.—An increased demand for potted plants was noted but a very small increase in flower sales, and churches bought less than formerly. Carnations had the first call. Lilies, roses, spiræa, heath, all sold in order as noted. Sales were in smaller lots but numerous and the result was quite satisfactory on the whole as stock was completely cleaned out.

WILLIMANTIC, CONN.—Easter trade was good and considering that there are now six retail stores in Willimantic where there were but two in previous years it would appear that Easter trade is decidedly on the increase. The heaviest demand was for cut flowers. There was a short supply of carnations in colors. Plants sold and rented about as well as usual.

ST. JOHNSBURY, VT.—Every year shows a steady increase in demand for Easter plants and flowers in this section and the present year was no exception to the rule. Lilies, in pots and cut, have been the most in demand for church decoration. Very few callas are called for. For presents potted plants in variety were popular and in cut flowers carnations seemed to have the preference.

PATERSON, N. J.—Cash receipts at least 30% larger. Prices fully up to last year. Supply large but everything sold. Quality fully up to the standard, carnations excellent. Bought with caution and sold at a profit. Demand for carnations greatly in excess of that of previous years. Most interesting feature was the great rush for flowers when everyone supposed that money for such purchases would be scarce.

NEW BEDFORD, MASS.—Easter trade was good as a whole; there was an increased demand for lilies, carnations and violets, carnations being in short supply and selling at 75c. to $1. Callas, tulips, stocks, spiræa, etc., went rather slow. Mermets and Bride roses brought $2 per dozen. There was a good call for blooming plants, this being especially true of Harrisii lilies, which proved to be in short supply.

MIDDLETOWN, CONN.—Flower trade for Easter was very good, in fact better than usual and stock was all sold out before closing up time. Roses, carnations, violets and lily of valley were the principal flowers called for. The demand for lilies and callas was not so good as it would otherwise have been if it had not been for the large quantity of lily blooms sent here from Bermuda.

PEORIA, ILL.—A decrease of one-half owing to the cold storm, dust and wind. Prices about same as last year. Supply was equal to demand. Quality better. There is a growing demand for extra well grown plants. The best always sell well at a high price. This was specially noticeable in lilies. Our market was flooded with inferior stock but all plants with large blooms and fine foliage met with ready sale. No call for smilax.

DES MOINES, IA.—About the same as last year; sold more flowers but prices were 25% lower. Short supply of roses and carnations. Quality better all round. Increased call for roses, carnations, violets and pot plants of Harrisii and azaleas. There were no very large orders, neither did customers want cheap flowers or complain about prices. The mass of



Scale
6 inches.

CARNATION RICHMOND AS SHOWN AT THE INDIANAPOLIS MEETING.

the less wealthy people wanted flowers, indicating an increasing taste for them.

DAVENPORT, IOWA.—About the same. Would have been an increase if the storm had not prevented. Some florists report a slight decrease. With some prices were about same as last year, with others lower. Supply was fully equal to demand. Quality superior. What was bought sold at a profit. The weather was against us. It began to blow cold Friday night and delivering lilies was hazardous work. Many were broken and had to be replaced.

MINNEAPOLIS, MINN.—About 20% larger. Prices a little lower. Supply fully equal to demand. Quality fully as good. Bought more and sold at small profit. Noticed an increased call for violets. Trade would have been a good deal better had it not been for the cold weather Saturday. There was a strong north wind, the thermometer was below zero and streets were rough. Delivering plants was difficult and a good many were frozen.

FALL RIVER, MASS.—Churches and stores did considerable Easter decorating. Lilies, both plants and cut blooms, were sold out early Saturday. There was an increased demand for azaleas in bloom. Spiræa and deutzia did not sell as well as usual. Potted tulips and hyacinths sold fairly well. There was an overstock of tulips and daffodils. Roses, carnations and violets were in short supply. Prices in general were lower than heretofore.

MONTREAL, CANADA.—About the same. All seem to be satisfied. No appreciable change in prices. Supply short. Good cut blooms were scarce, particularly violets and roses. Quality about as usual at the season. More home grown stock and less purchased outside than last year. Increased call for carnations. Some florists report smaller orders from the churches. Made up work is less in demand each year. Too many spiræas and too few Harrisiis.

NORWICH, CONN.—Easter trade was the best on record and the demand for lilies was immense. Lilies in pots sold well as did also small flowering plants generally. Hyacinths in pots were especial favorites, all colors selling well, but white in the lead. Everything in the way of lilies, roses, carnations and violets were sold out clean, first-rate prices being paid without question, a fact which the trade made no objection to after the hard times we have been experiencing.

BANGOR, MAINE.—Notwithstanding the very cold and snowy weather Easter trade was extra good, the best in fact for the past six years. Harrisii and longiflorum lilies in pots were sold in large numbers. Cyclamens, primroses and cinerarias all sold very well. Azaleas in small sizes went quickly but the larger ones somewhat slowly. Cut flower trade was good, there being a full supply of everything except carnations. There was no advance over regular prices.

ROCHESTER, N. Y.—Decrease of 20 to 25%. Prices a trifle lower on most flowers. Supply adequate except violets and carnations. With us wholesale prices were very little below those of last year so we did not buy as many. There is always a lot lost in handling and this cuts seriously into possible profits. Increased call for carnations. Rain all day Thursday and snow and wind on Friday made a difference in sales. Saturday was a good day but Sunday was cold and windy.

WATERBURY, CONN.—Easter trade here exceeded that of last year by fully one-fourth in quantity of flowers sold. Plant sales have steadily increased for Easter, keeping pace with the cut flower demand. Lily plant sales were unusually large. Prices were lower if anything than last year. Carnations sold at from three to four cents, roses from ten to twelve cents, Jacques from fifteen to eighteen cents and hybrids from thirty to thirty-five cents. Bulbous flowers went at every day figures, which are low.

BRIDGEPORT, CONN.—About the same. Carnations brought about same prices as last year but roses and bulb stuff about 25% lower. Supply was equal to demand. Forced stock was not quite so good as last year, carnations and roses were about as usual. Carnations and Jack roses had best call. There seemed to be an increased demand for flowering plants, lilies and azaleas being most in demand with hardly any call for hyacinths or tulips. In nearly every case the churches spent only half the amount of money expended in former years.

MARLBORO, MASS.—Easter trade was very good considering the times. The demand for lilies in pots was very heavy, but for cut blooms the call was light, the result of the large quantity of Bermuda lilies which were sent in here to our churches. While these came in fair condition, yet they were very short stemmed, but did very well for church decorating and prices obtainable for home grown blooms suffered on this account, and there is a feeling of resentment against the growers in Bermuda who serve the trade in such a manner.

GERMANTOWN, PA.—Easter trade, both in plants and flowers, was unusually large here. Prices were a little lower than last season, and on Saturday went all to pieces, especially on lilies. A number of new stores were opened on the main street and all did a good business, though there were quite a lot of plants left. Still the best were sold at satisfactory figures and all the growers seem satisfied. Cut flowers were in great demand and were rather scarce. Carnations, double tulips and valley were much sought, also handsome roses, good Brides in particular.

NEW LONDON, CONN.—Easter trade was rather ahead of last year. Flowers were plenty and stock was well sold out. The main rush was on small cheap lots of loose flowers, which showed a decided demand for flowers among the working people. There were few buyers for fine roses. Lilies in pots and low priced plants in general sold rapidly. Palms and lilies for church decoration went cheap. Many of the churches bought lily flowers from Bermuda. These came with short stems and in one instance a lady was overheard to say that the lot she received was all rotten; naturally she received but little sympathy from the florists here.

PITTSFIELD, MASS.—The demand here for lilies in pots was fully twenty-five per cent greater than last year. Other kinds of potted plants were in medium demand. Lilies cut on stalks were popular and roses sold well, especially Mermet and Brides which were to be had in first-class quality and brought $2 per dozen. The call for carnations was unusually heavy. They sold according to quality at from 50c. to 75c. per dozen; violets did not go as well as usual. Daffodils were in good demand at 75c. per dozen and general sale of cut flowers was about twenty-five per cent more than last year with an average decline in price of about ten per cent.

Chicago.

The supply of stock for the first half of the week was very limited, but trade being quiet at the same time no great trouble was experienced in filling orders. Towards the end of the week business became more brisk; Saturday was one of the busiest days this season, and everything was cleaned up, although stock the latter part of the week was quite abundant.

This week starts in with a heavy cut in roses; crops are on at a number of large establishments, which threatens to cause a glut unless business keep apace, but the prospect for a good spring trade appears to be bright.

In social circles there is quite a stir since the lenten season is over; a number of prominent weddings and other social gatherings are announced for the next two or three weeks. Monday opened up with an elaborate decoration for the annual banquet of the Iroquois Club at the Palmer House. This decoration was done by M. F. Gallagher, who is a member of this Club. It consisted entirely of wild smilax studded with roses for draping, with center pieces of roses for the tables.

Prices have dropped back again to their old level. Beauties come in a little more freely and are offered at 25 to 30 for selected stock; short stemmed go at 8 to 15. Hybrids are rather scarce yet, in fact there is less stock of this class of roses offered in our market this season than has been the case for a number of years. Nearly one half of the present supply is shipped in from outside points at that. The price rules firm at 25. Jacques are of good quality and fairly plentiful at 12 to 15. Of the larger teas the supply is heavy and of a quality that averages better than has been noted for some years at this season. Brides, while quite plentiful, meet with brisk demand, the price being held stiff at 5 to 6. La France has improved wonderfully and some extra fine stock is offered at 4 to 5. Mermets 3 to 4. Meteor is improving though a large proportion is still of poor quality; the best selected bring 6, seconds go at 4 to 5. Bridesmaid is offered in limited quantities at 6 to 7.

Carnations are very abundant, particularly colored sorts. Common varieties in red and pink go at $1; white is held 1.25 to 1.50, fancy at 2.

Harrisii, up to the end of last week, have been very short, but are coming in quite freely again; they go at 6 to 8.

Bulbous stock was pretty well cut out at Easter. Romans are noted in small supply, but the demand is very light. First quality goes at 2. Valley is in fair demand, good stock selling briskly at 2 to 3. Tulips are very slow at 2 to 3. Of Dutch hyacinths the supply is short, price 4 to 6. Daffs are very slow at 2 to 3.

Violets are getting very small and are fast nearing their end. The demand is quite brisk and stock of all grades is readily sold at 80 to 1.00. Mignonette is very plenty and of good quality; 2 to 2.50. Smilax is selling fairly well and as most of the stock has been cut out there is no such glut as has been noted most of this season, but prices remain so low that growers can see no profit in devoting house room to it. More attention will be given to Asparagus plumosus next season. The demand for this vine is steadily growing and large quantities were disposed of in our market, which with very few exceptions has been shipped in from eastern points.

A number of our large department stores have embarked in the sale of pot plants. The stuff that is handled by them is of the poorest and cheapest quality and the prices which are realized are probably all the plants are worth or more. A number of growers who supply these houses feel rather elated over the fact that by these means they are enabled to unload all the worthless rubbish that would find no sale in the regular channels of trade, but we are afraid it may prove a boomerang. These plants can not possibly give satisfaction, and buyers of them will hesitate before investing their money again, even if offered a sound article by the regular dealers.

The fakir is out again in full force and appears to do a thriving business. It is astonishing to note the amount of stock that is disposed of by them.

Mr. Robert Purvis, a member of the Chicago Florist Club, died at his home near Edgewater on Thursday last, from injuries received from a fall. Mr. Purvis was building a show house and salesroom in connection with his greenhouse, he was standing on a ladder not more than three feet from the ground, when the accident was caused by a miss-step, internal injuries received proving fatal. The remains were interred at Graceland cemetery Sunday last, members of the club attending. An appropriate floral design was sent by the club.

Almond Read died at the county hospital week before last. The deceased was employed by T. J. Corbrey at his west side establishment for 3 years and afterward acted as bookkeeper for Corbrey & McKellar at the exchange, where he gained many friends and was generally respected.

The result of the election Tuesday in North Chicago was a magnificent expression of resentment against the crowd that is attempting to make Lincoln Park a hospital for political hacks. Bartling pulled all his running mates down to defeat, and most significant of all received several thousand less votes than the rest of the ticket which he headed. Whether or not this expression by the people will have any effect on the governor remains to be seen. Park Commissioner R. A. Waller (president of the board) has returned to the city and announces that he will not resign in accordance with the governor's demand, and the entire press of the city loudly applauds the stand he has taken. Superintendent Pettigrew, acting on the advice of his friends, has not turned in his resignation, and it is barely possible that matters may yet come out all right.

Kennicott Bros. Co. have leased the entire second floor at 54 and 56 Randolph street for a term of years. The firm will occupy their present quarters as before. The Randolph street front of the floor is rented to J. B. Deamud & Co., now doing business at the Exchange. This firm will move into their new quarters about May 1.

Philadelphia.

The Easter trade is still the topic of conversation and all around, both grower and dealer express satisfaction with their business. Some dealers report not having done quite so much business as last year, but on account of more careful buying caused by the uncertainty as to the outcome, their profits were even larger, so they are correspondingly happy.

A number of weddings the past week have kept the boys moving, and as everything was cut so close for Easter, stock of all kinds has been very scarce; particularly has this been the case with carnations. All colors except red have been grabbed up on sight, and by night each day the dealers had sold out of this color, parties having to take Portia when they could get no other. Two dollars has been the low figure for even poor stock, medium to good flowers have brought 2.50 to 3, and some of the fancies 4 to 5, while the stately Helen Keller which seems now to be as fixed as the stars in price, brought 6. While most of the ordinary carnations seem to feel the effects of the warm weather, the fancies or new varieties appear to be better. Helen Keller, Sweetbrier, Ophelia and Daybreak, are now very fine, whether it is on account of the attention they receive in order to keep up their reputation, or whether it is due to their inherent good qualities, we will leave it to the buyers of this season's rooted cuttings to determine.

Roses have sold very well, and while prices have not advanced to any great extent all the stock has been sold at good figures. The larger class of teas have brought $6 to $8; smaller roses $3 to $4; Beauties $10 to $25; Laings and Luizets 15 to 25; Brunners from $25 to $40, most of the first-class stock bringing $4 per doz., although Anderson claims he gets $5 per doz. for all his No. one flowers. Colflesh has the Jacq. market to himself, they bring from $10 to $15 per 100. Smilax was very plentiful before Easter, and could be had for almost any price, this week however it is different, and 20 cents is asked for strings that will scarcely reach across the counter. A great deal of adiantum is now used, and this green sells readily at $1 per hundred. Daffodils are about done; what few there are, are quickly sold at $5. Sweet peas are coming in and with great difference in quality, mainly caused we should judge by lack of experience in cutting, as some have long stems with all the flowers open while others have but one flower open and a very short stem, the latter are also very soft. They sell well however, the poorest bringing $2 per hundred and 2.50 to 3 for the best.

Violets have been very scarce, the small single ones are all done, the hot weather bringing them on so fast that the week before Easter the foliage was almost hidden by the flowers, but by the latter part of the week they were done, and had all bloomed out. The double varieties are also scarce and what few there are seem but an apology for this popular flower. A few received from Virginia were really fine. It seems strange that violets can not be grown in Philadelphia successfully; flowers that come from the north, south, east and west, are invariably better than those produced about here. Here is a chance for some of our specialty growers.

The matter of rebuilding Horticultural Hall is now receiving attention from some of the wealthy members of the society. A committee having the matter in hand report that a movement is on foot that is likely to place the hall on the old site, in a greatly improved condition. Mr. Parson's contract with the trustees as superintendent of the Hall, or perhaps we should say ruins, expired the first of April. With the aforesaid gentleman himself however there is no danger of any dissolution; he is as lively as a cricket and seems like a horse kept in a stable for want of work, he has energy enough now to manage two halls.

The next chrysanthemum show is to be held in the Academy of Music and will be a grand affair, as the beautiful building will give the decorators a grand chance to spread themselves and show the citizens how beautiful the Academy can be made to look.



PHŒNIX CANARIENSIS ON A LAWN IN NEW ORLEANS.

The ten pin matches come off regularly every Thursday night. Last Thursday was an exception, however as the boys had enough to do without rolling ten pins. The match or series of games to determine who will be the committee to bring back the cup from Atlantic City next August, will soon be inaugurated and we have no doubt the team selected will be a strong one. K.

Mr. Harry Bayersdorfer of H. Bayersdorfer & Co. will sail on the 18th inst., on steamship New York for a business trip through England, France, Germany, Austria and Italy.

New York.

Business in the early part of the week was very good and the shortage of many varieties of flowers as noted at Easter continued for several days afterwards, but towards the latter part of the week stock became more plentiful and the demand seemed to slacken up considerably. There have been some large decorations which used up a great many flowers, and this naturally has had a beneficial effect upon the market in general.

American Beauties are very plentiful. The general quality is very good, but the large quantity that is coming in has had a depressing effect on prices, which have dropped lower than usual, although a few of the choice blooms will bring as high as $50 per hundred. Harrisii lilies are also abundant and the prices run from $6 per hundred down. White lilacs are being received by Thomas Young, Jr., in large quantity and the quality excels anything offered here this season. Carnations are the best stock in market at present and good prices are maintained on all varieties, the fancy sorts being especially in demand, and bring from $2 to $4 per hundred. Some of the finest Mermets and Brides that have come into the market this season are being cut by Mr. C. H. Hagert of Summit, N. J. Violets are quite abundant, while mignonette is excessively overstocked.

Contributions are being solicited for the benefit of the widow and children of the late Thomas L. Russell, and it is gratifying to note the response has been a liberal one.

Siebrecht & Wadley have filed a claim of $17,047.47 against the State for flowers furnished the New York State building at the World's Fair, the board of managers having refused to audit the bill.

Mr. Alfred Dimmock arrived from London per steamship Lucania on March 31st.

Phœnix Canariensis.

The accompanying engraving is from a photograph of a splendid specimen of this phœnix growing on the grounds of Mr. Simon Hernsheim, New Orleans. The photo was sent us by Mr. Justin St. Maud, the gardener in charge, who writes:

"The plant is considered the finest and largest in the United States. It covers an area of over 100 feet in circumference, is about 30 feet high and is 15 years old. It has stood the test of our lowest temperature (16°). It is now in full bearing and has thousands of ripe seeds."

New Haven, Conn.

Easter was with all the dealers the busiest day in flowers ever seen in New Haven. The demand far exceeded the supply in every article with the possible exception of yellow narcissus. Carnations, especially white and pink, tulips in light colors, violets of any variety (if only fresh), lily of the valley, roses in white and pink, were almost an unknown quantity late in the afternoon. The supply of scarlet carnations, bright tulips, and Jacq. and Wootton roses was almost equal to the demand. Lilies, both Harrisii and candidum, sold well, particularly the former in pots, the supply being perfectly exhausted. The demand for flowering plants was unusually large, anything in bloom being bought up readily. Mahernias, genistas, white and pink azaleas, heliotropes, geraniums, astilbe, potted hyacinths, and narcissus, were all readily sold.

The prices averaged about the same as last year, excepting Perle roses and lilies which were slightly lower in price. The growing demand each year seems to be for cheap flowers, as the Easter fashion here prevails with every class, and this season the advance in price of carnations,

and scarcity of such roses as Bon Silene and Safrano that could be retailed at 75 cents per dozen lost the dealers a large number of sales from a number of people who could not afford the higher priced stuff. The quality of the flowers grown here and sent in from outside, was never better, the past three weeks seeming to bring out everything and especially the bulbous varieties to great perfection. V.

Boston.

Trade has been good all along the line ever since Easter. The small remnant of stock left on hand in the way of lilies and white flowers after Easter found a ready market on the following day, and this demand was accentuated by the enormous quantity of flowers called for on the occasion of Harry M'Glennan's funeral. The number and beauty of the designs made for this purpose exceeded anything of the kind seen here in recent years and all the florists had a share of it.

Flowers have continued in great demand throughout the week. The stiff prices asked for carnations have begun to have an effect on the market, however, and there are indications that prices must moderate soon or somebody will have a stock left on hand. For fancy varieties fancy figures are willingly paid, but on common sorts of ordinary quality there is a disposition to protest. Roses of all kinds are selling well at fair prices.

Louis Guerineau has accepted a position as superintendent of the Botanical Garden which is to be established at Smith Academy, Northampton. Two new greenhouses have been erected on the grounds by Lord & Burnham.

Visiting Boston—J. Blaauw, Boskoop, Holland; W. A. Manda, E. O. Orpet.

Buffalo.

I have met no one in the business yet who was not well satisfied with the Easter business, some are very enthusiastic over it, others not quite so much. Altogether it is safe to say that the bulk of business done was far in advance of any previous Easter week. There were more to do the business, that must be taken into account. What a change the Easter business of to-day compared with fifteen years ago; not only in volume but in style. Then we were all looking out for church decorations and memorial designs. The latter is about obsolete and the churches decorate much less elaborately. If there was any feature of the trade more to be noted than another it was the sale of plants. Anything in the shape of plant in flower went. In quantity lilies took the lead, and sold at 20 to 25 cents per bud, either as a plant or cut. Next came azaleas, a large quantity of those were sold at from $2.50 to $7 and $8. It was quite noticeable that in azaleas the white did not sell anything like as well as the colored varieties. Old Mme. Vander Cruyssen with its grand shape and profusion of flowers will outsell any of them. There were good lilacs sold, but the demand for them was not brisk when the purchasers could get an azalea. A few of our florists invested in some monstrosities which they called standard lilacs, they were six or seven feet high with a little head of leaves and a few flowers on top. Nobody wanted them, but the owners have stored them away, hoping to find a market for them at our fall elections. Some of our ardent voters erect poles on that occasion. Spiræa, cineraria, pans of tulips, hyacinths and daffs all sold well. There are thousands of people who at Easter time want to purchase a plant, but their limited means won't allow them to purchase an azalea or even a dollar lily. They want some little plant for 25 cents and this should not be lost sight of. A Dutch hyacinth in a 4-inch pot or a nice zonal geranium in a 4-inch pot fills the bill. Of the former there was an immense quantity sold. There were no hydrangeas forced here, but Mr. Long got in a few and they sold, but you could easily over do that plant in this market. The Saturday preceding Easter was a fine fair day (for which we are all devoutly thankful) and some of the Main street stores overflowed to such an extent that they occupied the sidewalk for half a block.

It would be hard to say which was the leading flower of the day. In value of course roses took the lead, as is always the case. Carnations and violets ran a dead heat for second place, close up at the finish, showing no signs of distress as they needed little urging. There was no overstock of any of those popular flowers. Good tea roses sold at $2.50 per doz.; carnations, the best at 75 cents and $1 and violets at 2.50 per hundred. There was little demand for bulbous stuff, but nothing wasted, because very little was grown for the occasion. Lily of the valley and mignonette sold well. I never remember so light a demand for smilax; you scarcely heard it mentioned. Altogether the Easter just past must be considered the greatest floral festival this city—or for that matter this county—has ever witnessed, and we can look confidently forward that each succeeding Easter will be a greater event with the florist than any that are past. Hard times or prosperity—free trade or protection—won't affect it; rich and poor alike will buy a flower for Easter.

Time does not hang heavy on our hands now, for we have the pleasure of an interview with a Dutch bulb grower three or four times a day. Sometimes two of them at the same moment of time. They are easily disposed of this year, because they have had bitter experience before they get as far inland as this, and take a loud no as a matter of course, and with little protest. W. S.

The 12-year old daughter of Wm. Scott is dangerously sick with typhoid fever. The 21st day of the fever has passed with little change, but the family hope for the best.

St. Louis.

The cold snap that arrived here the day succeeding Easter, and noted in my last week's notes, was the most severe and destructive that has ever been known at this season of the year, that is taking into consideration the weather that preceded it. The glass registered on the nights of the 24th, 25th, and 26th, 17°, 16°, and 18°, and carried consternation to the heart of the fruit growers. Many of the market gardeners also were caught very severely with early planted stock; the damage however is not so irreparable with them, as they can replant their grounds. Considerable hustling was indulged in by florists having stock in frames to get them covered up, and the only available material being boards, manure having been dispensed with some time before, as a result of insufficient covering considerable damage was done, some firms placing the loss up in the hundreds.

The plant trade is slow, buyers apparently are waiting to make sure that spring has arrived before investing again in plants. Cut flowers still continue in good demand, the season has been noted for the number of "store openings" that have occurred since spring trade commenced, and which use up a great many flowers. They are mostly of a low grade, but still it keeps the market comparatively clean. A great quantity of wild smilax is used in these openings, and is most effective in the decorating, while at the same time it can be obtained at a reasonable figure.

At a meeting of the Exhibition committee it was decided to hold the coming fall show in the art rooms of the Exposition building, all the members present being of the opinion that the difference in the terms secured for these rooms, and what has been paid during the last two years for the Music Hall, would more than offset any disadvantages which might be urged against them. The premium list was gone over carefully, and changes that had been recommended were made, they consisted chiefly of cutting down the number of classes called for, and in more than doubling the prizes offered for plants, so that the growers can have the possibility of realizing something substantial for the time placed on specimens. Favorable answer were received from the street car lines regarding the advertising, and doubtless at the time it will prove most effectual. There will be placed in the statuary room of the Exposition building a fine display of fruit and other products of the state of Missouri, under the auspices of the Missouri Horticultural Society, for the coming annual Exposition. The display is intended to remain for several years and as the statuary room is one that will be turned over to the florists for the show, a special and attractive feature will be made of the permanent display.

At the recent Turner—Joy wedding the decorations at the church, and house, furnished by the Ayers Floral Co., were quite extensive and appropriate. The church was decorated throughout with palms and Easter lilies, while each side of the altar was banked with palms. Smilax was used for festooning, and a canopy studded with roses was composed of the same material. The house was decorated throughout, the mantels being banked with lilies and adiantum, while the fireplaces were filled with small palms and cut ferns. The chandeliers were trimmed with smilax and ribbon, the stair-case with smilax and asparagus studded with roses. All doors were furnished with portieres of smilax. The dinning room mantel was banked with adiantum and Mermet and Bride roses, the whole having a very charming effect. R. F. T.

Toronto.

Some of the florists report that their sales at Easter were a little less than last year and a few report larger sales, so that among the older established ones the total sales were on an average probably about the same, but it must be remembered that several new stores have started since last Easter and that two or three of these did a very large business and there is no manner of doubt but that the grand total of sales exceeded those of last year to a great extent; it is however almost impossible to do more than guess at the percentage of increase, which would not be instructive. But it is extremely doubtful if the money value of this grand total o

sales was much larger than that of last year on account of prices of nearly all stock being considerably lower.

The supply of flowers, which was immense, was with the exception of roses, violets and valley, equal to the demand. Carnations seem to have been quite cleaned up, many people taking them in place of roses, but there appears to have been enough. The call for carnations is increasing and in this city at least Daybreak still holds the lead.

The quality of the flowers may be said to be about the same as last year, as good as they are grown in this latitude, and that is saying a good deal.

As a general thing it is doubtful if retailers bought more than they did last year, probably owing to the fact that there were more stores to supply and that two of the largest wholesalers have retail stores and did a large business. This latter fact one might call the "interesting peculiarity" in the trade here this year.

The plant trade, which in the fore part of the week had been pretty lively and promised well, strange to say on the Saturday did not at all come up to expectations and of course there was much disappointment in consequence. The weather on Saturday was comparatively mild and did not interfere with the trade, but by Sunday evening there were 20° of frost, more like what Christmas ought to be. It is still cold (29th) and there is snow on the ground but we are promised that at the next turn of the tap it will be mild.

Considerable excitement has been caused in this country by the tariff revision, the cat is out of the bag now, but there is very little difference made in stock used by florists. E.

Washington.

Easter trade seems to have been fully up to the expectations of the majority of our florists. Thursday and Friday the weather was anything but favorable to flower buyers. The bulk of the orders came in at the last moment. Saturday was a busy day with all, many of them being compelled to remain in their stores from early Saturday morning until Sunday afternoon.

Good roses were very scarce, in fact poor ones were not plentiful. The warm weather during the past two weeks brought on premature growth, and threw the grower out of his reckoning; instead of having his largest crop at this time it was ten days past or more. Harrisiis were plentiful this season, the supply being slightly greater than the demand; they were sold for $3 per doz. Pots having from 2 to 4 flower stalks and from 5 to 8 flowers sold readily for $2. Azaleas and genistas in 6 and 7 inch pots were in demand; bringing from $1.50 to $2.00. There was a noticed falling off in the demand for hydrangea plants in flower, which is probably owing to their poor keeping qualities, the general complaint being that both hydrangeas and genistas lose their flowers shortly after being taken into the warm dry atmosphere of a dwelling house.

Violets were both poor and scarce; the demand was greater than the supply, this was probably due to the warm weather just past, which glutted the market for a time. Such as were offered brought $1 per 100. Carnations were not over plentiful and were in great demand. Bulbous stuff was very plentiful, and generally speaking good in quality, and was in great demand.

The majority of the florists had their windows handsomely decorated. Mr. J. R. Freeman had his beautiful store on 13th St. transformed into an exhibition room. He had a magnificent display in the large front window; the plants were nicely arranged from the floor to the ceiling, extending some 12 or 15 feet back into the store. It was a miscellaneous assortment of blooming plants and ferns, all in splendid condition. Among them I noticed three very handsome plants of Kalmia latifolia in full bloom; they suggested the question, will this plant become a candidate for Easter decorations? Mr. F. also had some very fine specimens of azaleas, some 4 or 5 feet high and the same distance through; they were a mass of bloom.

Mr. C. F. Hale had both his stores tastily decorated with hydrangeas, azaleas, genistas, Harrisii, palms, araucarias and ferns.

Messrs. J. H. Small & Sons had their large store profusely decorated with ivy and wild smilax plaques on the wall. They had a fine display of azaleas, hydrangeas, genistas, Harrisii, and other flowering plants. In their window fronting 14th St. they had an unusually fine display of hybrid roses arranged in jars, hid among adiantums and selaginellas, producing the effect of a rose-garden.

C. Strauss & Co. had a fine display in both their stores; hydrangeas, Harrisii, palms, ferns, callas, etc., together with their fine assortment of cut flowers, made a most attractive decoration.

Gude Bros. had an excellent display of Easter stock in general; their window was arranged to represent an egg-rolling scene, which was carried out very nicely in every detail.

Monday night we had 14° of frost, which did considerable damage to early vegetation, killing all the early peaches in this section I am afraid. The hyacinths in the parks which had just fairly started to make a show were all killed. Deutzia gracilis, which was finely budded, was destroyed, the entire young growth being killed back to the old wood. Spiræa suffered in a like manner. In unprotected places the young shoots of the hardy roses were killed. The various magnolias which were just in their height of beauty were as brown as cinnamon Tuesday morning. All of the early flowering shrubs were more or less injured.

REYNOLDS.

St. Paul, Minn.

The week before opened pleasant enough for the most fastidious but closed bad enough for the most indifferent. Friday was a fairly good day, but Saturday the thermometer sank nearly to zero and the wind blew a gale, making delivery of tall plants almost impossible.

The floral displays throughout the city were of the highest order. First and foremost was L. L. May & Co's. magnificent Easter floral opening in a large store on West 5th St. The store was filled to overflowing with lilies, azaleas, hyacinths, roses, etc. In the window a huge Easter cross eight feet in height made of lilies attracted and held the sight seers. It was very nicely designed and reflected much credit on the skill of Mrs. Garges, the competent designer for this progressive firm. They report sales good, ahead of last year with the weather very unfavorable. Their prices were fixed at 15 cents per bloom for lilies, hyacinths 15c. each, two for 25c. Their fine collection of hybrid roses in bloom sold readily at 50c to $1 per plant. Their stock was large and all sold.

Aug. S. Swanson also had a very fine display of lilies, azaleas and pelargoniums, these last being the finest plants ever displayed in the city. He occupied a store rented for the occasion on Robert St. His prices were rather higher than other florists, though his sales were large. We think however that he had quite a number of plants left on hand unsold.

Wm. King, on East Seventh St., reports good sales. Seeger & Heiersekorn, the popular Jackson St. florists, report good sales. Warrendale greenhouses made a fine display as usual. Chas. Bennett had the usual quantity of desirable plants and flowers, as did Charley Vogt in the Market House. E. F. Lemke had the finest lot of azaleas in the city and as usual made good sales. Chris Hansen was kept busy with his shipping orders and on the whole every one seems to have had a nice Easter trade, but they all begin their statements "If the weather had been favorable, etc." However as nearly all the stock in the city was sold what more could be wanted.

Prices on cut flowers ruled lower than usual. Roses sold at $1 to $1.50 per doz., Beauties at $3 to $4, violets at 50 cents per bunch, carnations 50 to 75 cts. per doz., valley $1 per doz., Romans, narcissus and tulips 75c. to $1 per doz.

The supply of cut flowers was nearly equal to the demand, but the cut was enormous for this season of the year. The greatest demand however was for cheap flowering plants; anything that would sell for 15 cents to 50 cents went quickly.

St. Paul certainly had the finest floral display ever seen here and the florists have had good Easter sales. There are several reasons for this. First the unusually large amount of stock planted in anticipation of Easter. Second the very light sales during the winter, consequently stock was not depleted as in former years. Third, the early date at which the Easter holiday season came. Fourth, the very warm and pleasant weather that prevailed for several weeks previous to Easter, bringing everything into bloom at the proper time. Fifth, the friendly rivalry existing between the leading florists, inciting them to greater efforts in producing, advertising and displaying their stock, and last but not least the desire created for plants and flowers the past year.

We notice spring stock looking well in nearly all of the houses about town. Sales after Easter are good and encouragement is felt all along the line.

FELIX.

Ottawa.

A long spell of beautiful weather was broken on Good Friday by snow and hail, accompanied by a frosty wind which lasted over Sunday, making it disagreeable for florists who had many plants to deliver. Lilies suffered most, owing to their length. Although there were not enough to supply the demand, all were glad when the last plant was delivered. Azaleas, spiræa, deutzia, pans of hyacinths, in fact anything in flower that could be sold for a dollar and under went lively, but foliage was not wanted.

The cut flower trade exceeded our expectations, owing probably to most of the M. P.s remaining in town, and the usual dose of funeral work came in at the busy time, making it awkward. There were no big orders for churches, most of the stock being contributed by individual members of the congregations, and after being manipulated by about twenty la-

dies of a committee the effect was nothing to boast of. St. Andrews (the Auld Kirk) was the only one that gave a straight order to decorate the platform with plants, being the first time this church has done so.

Trade has been a trifle flat since Sunday; roses especially are very plentiful. The mourning in the vice-regal household puts a damper on festivities, but Lady Aberdeer will start entertainments again on April 26 with a state dinner, when we hope to make up our losses to a certain extent. Lily of the valley throughout and violets for favors is the order for that occasion. It will be a relief when the one flower custom goes out. There will be a Drawing-room on the 28th, which will help all in the trade. Mrs. Speaker White starts regular weekly dinners this week; this lady is a very liberal patron of the florists, wanting the best only, and leaving the arrangement to the florist.

Good violets were scarce at Easter; one florist who has a house found himself short and ordered from Boston, to be shipped on Friday. The dealer, for reasons best known to himself, sent them on Thursday. When they arrived the wax paper was the best part of the shipment. The flowers had the appearance of having been used at a couple of parties and then stored for two days. The highest list price was charged, C. O. D.; 20% duty had to be paid—result, total loss.

ZERO.

Massachusetts Horticultural Society's Spring Exhibition.

The Spring Exhibition of the Massachusetts Horticultural Society, which closed on Friday evening, March 30th, was most creditable, considering the disadvantage of date and weather. A week directly after such an Easter as was experienced this year is not the most favorable time to get together a grand display. The worse drawback was the weather. Having come in like a lamb and maintained its lamblike manners until Easter had gone, March, true to tradition proceeded to assume the character of the proverbial lion, and worse days for the transportation of flowering plants than the first day of the show and the day immediately preceding could scarcely be imagined. The result was a smaller contribution than usual of azaleas and other large plants, so that when the upper hall had been well filled there was but a small remnant for the lower one. In many respects however, the show was a notable one, particularly in the bulbous classes, the hyacinths and tulips being uniformly fine throughout, and the cyclamens undoubtedly eclipsed anything ever shown in this country.

The principal exhibitors in spring flowering bulbs were N. T. Kidder, J. L. Gardner, Dr. C. G. Weld, W. S. Ewell & Son, the Bussey Institution, and E. S. Converse. In hyacinths, N. T. Kidder outstripped his competitors in most of the classes, although all were good, and it is not often that an opportunity is offered to see such well filled spikes of Lord Derby, Grand Maitre, King of the Blues, Alba Superbissima, La Grandeur, Gertrude and other old favorites. On tulips W. S. Ewell & Son and the Bussey Institution were well in the lead, Chrysolora, King of the Yellows, Brutus, Kaiser Kroon, Rose Grisdelin, Cardinal's Hat, La Reine and many more well known sorts being shown in best form. Lilies Harrisii and longiflorum, narcissi in variety, anemones, freesia, ixias, Roman hyacinths, grape hyacinths, tritonias, etc, were all shown in more or less quantity by the same exhibitors, the Bussey Institution and W. S. Ewell & Son winning first and second premiums respectively for general display.

The premiums for hard-wooded greenhouse plants brought out some fine specimens of interesting things which are seldom met with in exhibitions, such as Eriostemon intermedia, E. densifolia, Polygala Dalmatiana, Acacia armata, A. heterophylla, Boronia megastigma, Chorizema Lowii and some handsome ericas, in which class John L. Gardner and N. T. Kidder were the principal exhibitors.

Of hardy flowering deciduous and evergreen shrubs forced, the Bussey Institution and John L. Gardner contributed a fine collection. Indian azaleas were not up to past exhibits either in quantity or quality. The Lyman prizes for six specimens of these were taken by Dr. C. G. Weld and N. T. Kidder respectively, the Bussey Institution being first on four and W. S. Ewell & Son first on single specimen. The cinerarias were as usual brilliant in the extreme, John L. Gardner, Dr. C. G. Weld and E. S. Converse being the principal exhibitors.

The display of orchids was not large but there were some well-grown plants in all the groups, notably E. W. Gilmore's Oncidium Marshallianum and Cattleya Lawrenciana, J. L. Gardner's Dendrochilum glumaceum, Dendrobium Freemanii and Cattleya gigas Sanderiana, N. T. Kidder's Cypripedium villosum and Edward Butler's Dendrobium nobile, the latter receiving a special award for skillful culture.

Cyclamens were shown by Geo. M. Anderson and Dr. Weld. The table of twenty-four pots of cyclamens grown by Mr. Anderson was the great feature of the exhibition and attracted much enthusiastic admiration. The beautiful white variety Mount Blanc was particularly fine, the petals of the flowers measuring up to two and one-half inches in length. Another prime attraction was the display of Lace Plants (Ouvirandra fenestralis) from J. L. Gardner, E. S. Converse and J. S. Cowles, to whom the premiums were awarded in the order named. Rea Bros. made a fine display of Primula Sieboldi in many varieties.

The cut flower premiums were well competed for with the exception of those for roses. The prizes offered for roses amounted to about $200 and it was somewhat surprising that so few entries were made. J. P. Spaulding's Mermets and Brides and C. V. Whitten's Meteors and Hostes were very handsome. Among the best carnations shown were Nicholson and Ada Byron from Wm. Nicholson, Hector, Lizzie McGowan and Ferd. Mangold from E. S. Bridge, Henrietta Sargent from J. Tailby & Son, Jacqueminot from Peter Fisher & Co., Daybreak from L. H. Foster, Buttercup from C. Southworth and several varieties from F. A. Blake and Geo. Sanderson.

As usual D. Zirngiebel was invincible on pansies, his blooms sustaining well their reputation. James Comley arranged a pyramidal decoration consisting of a hemlock ten feet high beautifully festooned with wisteria and the base decorated with plants of cineraria, longiflorum lilies and asparagus.

Among the visitors to the show were W. A. Manda, South Orange, N. J.; Richard Gardner, Newport, R. I.; Geo. McWilliam, Whitinsville, Mass., and F. S. Folwell, Lenox, Mass.

Please mention the AMERICAN FLORIST every time you write to an advertiser.



Carnation Plants in Pots.

Last week I made a few remarks about exhibitions, treating on cut flowers only. There is another feature of exhibitions that is coming to the front and will I hope increase every year until it plays a prominent part in all the shows both spring and fall. This feature is the growing of and exhibiting carnation plants blooming in pots. In giving my ideas on this subject please remember that they are ideas only, as experience with this phase of carnation culture with me at least is yet to be attained. It would be very interesting to hear from some other growers on this subject.

First select a certain number of each variety that is wanted for this purpose and then take double that number to allow for failures. Pot them up and see that they are not allowed to become root bound, to dry or get checked in their growth in any way whatsoever. As soon as the weather permits, which is now in most localities, put them out into a cold frame and see that they have an abundance of air whenever it can be safely given them. Leave the sash off entirely as long as the weather is not actually freezing, and as soon as all danger from frost is over take the frame away. When you take the frame away if they can stand repotting put them into 4-inch pots and plunge the pots up over the rim in the soil. Have frames made to hold about four sash and so that you can set them aside in suitable weather and two men can carry them over the plants if one of those wet rainy spells of weather turns in that we so often have in the spring months. These wet spells of weather produce a very rank and luxuriant growth on carnations but not a very desirable growth, and plants wanted for exhibition purposes should not be allowed to attain a soft growth.

As a rule they will not require much watering, but it must be remembered that being in pots they will suffer from drouth quicker than if they were planted in the open field, and they should be carefully watched, and when ever they do need water give them a good soaking, as if you merely keep the surface nice and moist it will induce root growth around the top of the pot, which is to be avoided as much as possible. Care should also be taken that they do not root through the bottom of the pot.

When they need it, repot into fives and if necessary again into sixes or sevens. In topping them them the object should be to have a nice symmetrical plant by September 1st; one that will not need staking and will have at the date of the show a good crop of buds and bloom on it. In attaining this point of course you will have to understand the variety and handle it accordingly.

To get a good plant it is important that you do not crowd them; there should be at least a four inch air space all around each plant. It is hardly necessary to say that no weeds should be allowed among them. If you find that they are not coming up to the requirements exactly they can be fed up with a little liquid manure, but it is well to remember that this will somewhat retard the bloom.



CARNATION ADA BYRON.

Pot plants for exhibition will have to be grown by local growers, as it would hardly pay to have them expressed from any distance. Each grower should take a pride in helping make this feature of the show a success and if by any chance he makes a miss with his plants he should not stage them. A. M. HERR.

Carnation Ada Byron.

This carnation is a seedling from Mrs. Fisher, raised in 1891. This and the new carnation Nicholson were both from the same lot of seedlings, the originator being Sewall Fisher of Framingham, Mass. The Ada Byron is one of the most fragrant carnations known; it is of a robust growth and a good keeper; in color it resembles a well grown Grace Wilder. Both the Ada Byron and the Nicholson have been favored with a number of first-class premiums at various exhibitions in the east during the past two years.

WE HAVE RECEIVED from the Denver Floral Co. blooms of their new carnation James Huddart, which has never yet been exhibited. It is a large and well formed flower, in color a deep rich crimson, with an extremely rich velvety surface. It appears a promising variety.

Miscellaneous Seasonable Hints.

The very unusual date of Easter may have been too early to suit many growers of specialties, but it cannot be denied that an early Easter is very advantageous to the general retail grower. We have more ample time to get our spring stock in good shape, and lots of it which we should not have had if Easter occurred a month later, which it does once in a life time. The great bulk of the geraniums that have been waiting in 3-inch pots can now be shifted into 4-inch. Six or seven weeks growth in their increased pot room will just land them about right, looking fresh and well and full of flowers by the end of May, which in our latitude is the time of bedding out. Avoid any shading of any kind for your geraniums for a month to come. In fact they should never be shaded. If you can't afford to watch them and keep them well supplied with water, then plunge in some material above all of which is best spent hops. There is something in hops besides a medium to keep the pots from evaporation.

Now is the time to take the poinsettia from under the bench and after cutting back all growth that is decayed, shake out the old plants and start growing in a smaller pot in a night temperature of 60°. Cut back the last year's growth and make cuttings of two eyes. Put them in the propagating bed where you are keeping up the most heat and they will in a few weeks be rooted. But take care of the old plants, the offshoots of these old plants will readily root freely if treated like chrysanthemums in midsummer, with plenty of water, and if two inch plants in August will make the best of market plants at Christmas.

The late very warm weather in early part of March gave some of us a chance to sow sweet peas, but very few took advantage of the chance, and now at the first opportunity it is your duty to sow them. A very much nourished soil is not at all desirable for a crop of sweet peas. If the soil is too rich the plants will grow too much to "vine." If they are desired early which is always the case then a poor soil is what you want. I have been asked several times this spring if sweet peas should be soaked. They should not be; a better plan when the weather is dry after sowing them in the drill, which should be 5 or 6 inches deep, is to sprinkle the drills before covering the seeds, and after covering, firmly tread down the rows.

Hydrangeas will now have a chance to spread themselves. If you topdress them and pot them into 5 or 6-inch pots it is now certainly desirable that you should not have to shift them again. There is no plant that is such a gross feeder as the hydrangea, and the best way to supply their wants is by putting one or two inches of half rotten cow manure on the surface of the pots, and be sure and give them space enough to fully develop their fine foliage.

For several years I have adopted this plan: In a row of geraniums 100x3 feet, lift out every 4 or 5 feet 3 or 4 geraniums, and on an inverted 5-inch pot you can stand a hydrangea. Nothing sells better the latter end of May, so they deserve all the care and space you can give them.

The alternantheras that you have wintered over in boxes will now want to be potted off. If you don't have stock enough take off cuttings; they will root as easily as chickweed and remember there is only one place to make a good alternanthera, and that is in a mild hotbed. You can put A. paronychioides major in a house where the temperature is 80° at night and they will only exist, while a hotbed will produce full fledged and beautiful plants.

I have no right to trespass on other people's territory but I can't refrain from saying that one way of giving you more room in your houses will be by putting your young carnations out in a cold frame. There has been so much written about varieties, if not species, giving out lately, that it makes one stop and think. The abuse of the flowers we mostly depend on for a living is getting more and more difficult to depend on to return the expectant results. In carnations more than any other of our commercial plants is this true, and I believe that a *cold* frame, where the young plants can have a comparative rest for a few weeks, is of great benefit to them. Be sure and don't put them where heavy rains are likely to send water under their roots and on all fine days remove the sashes entirely.

W. S.

MORGANTOWN, W. VA.—A meeting will be held here April 5 and 6 to form a State Horticultural society. Mr. G. A. Hiehle, the florist of Parkersburg, is taking an active part in the work of organization.

CANTON, O.—Business has picked up in this locality during the last few weeks and all florists report that they have been able to sell at good prices everything they could present in bloom for Easter. Mr. Charles Brown is cutting some fine roses just now. La France, Perles and Meteors seem to be his favorites. He grows a large quantity of spiræa in 10 and 12 inch pots which he finds most profitable in his cut flower trade. Hyacinths sold well.

NEWARK, N. J.—The florist establishment of Karl Voight on Morris Ave. was visited by a burglar some time during the night of March 24th, who walked away with the safe in which $400 in money besides other valuables were locked up.

PROVIDENCE, R. I.—Mr. Joseph H. Brown, one of the founders of the Rhode Island Horticultural Society, an ex-president of that organization, and prominent in its councils, died on the 26th inst. in his sixty-eighth year.

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Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

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SITUATION WANTED — Commercial or private place, by young florist; 10 years' experience; speaks German and English; good references.
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SITUATION WANTED—By a practical florist, 13 years' experience in growing roses, carnations, palms and general stock; single. Good references. Address R G, 501 N. Calhoun St., Baltimore, Md.

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WANTED First-class specialist in hardy herbaceous plants for commercial nursery. Address PITCHER & MANDA, Short Hills, New Jersey.

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WANTED—An assistant in greenhouse. A good man will find good wages and share in profits, with regular employment, by applying to the
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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Violets Growing out of the Disease.

I saw a frame of violets the other day at a private place at Fort Washington, N. Y. City, that were without doubt the finest I ever saw. The plants were large, healthy and carrying the largest and heaviest crop of flowers imaginable. The flowers were large, fine color and without exaggeration you could pick them by the thousand. If a florist could flower them the same way and of as good a quality he could make a fortune in a short time. Now to speak of disease Mr. Webber, who grew them, says that last spring when he divided up the old plants for stock they were literally rotten with disease. He planted them out in the garden, and they got no more attention than keeping the ground clean and loose. When he took them up they were clean, healthy and as they are now in perfect health, and have bloomed continuously ever since. Mr. Webber does not believe in artificial heat for violets, and a look at his plants would convince anyone he is right. During the late warm weather he shades from the sun, so that his flowers are of fine substance and very dark color.

At another private place at Orange there is a frame of violets attached to the front of a greenhouse, and the plants and flowers are magnificent, so it goes to show that frame cultivation and no artificial heat, provided you can keep frost out, is the proper treatment for the violet. While I have seen some good violets in houses this winter I have seen none to compare with those in the above mentioned places. JAS. S. TAPLIN.

Hackensack, N. J.

FREDERICKS & HUGHES is the style of a new firm of landscape gardeners and contractors composed of Mr. Chas. H. Fredericks and Mr. John M. Hughes, the latter for the past eleven years superintendent of Wootton, Mr. Geo. W. Childs' country seat at Bryn Mawr, Pa. The headquarters of the new firm are at Bryn Mawr and Ardmore, Pa.

SUSSEX, N. B.—The Sussex *Weekly Record* of March 16 prints a lengthy description of the greenhouses of Mr. Herbert E. Goold, who starting in 4 years ago with a house containing 500 feet of glass, has since increased his surface to 3,500 feet of glass and uses 2½ acres of land in his business. Mr. Goold intends to build a forcing house for roses and an additional plant house the coming summer.

NEW BEDFORD, MASS.—Mr. H. V. Soule has completed a range of four greenhouses at 1325 Coffin Ave.

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Carnations	2 00@ 4.00
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Roman Hyacinths	1.00@1.50
Mignonette	2.00@ 6.00
Smilax	10.00@15.00
Asparagus	50.00
Adiantum	1.00
Lilacs, per bunch	.50@1.00

BOSTON, April 2.

Roses, Niphetos, Gontier	3.00@ 6.00
" Perle, Sunset	4.00@ 6.00
" Bride, Mermet	6.00@12.00
" Jacqs	6.00@18.00
" Brunner	10.00@50.00
Carnations	2.00@ 4.00
Violets	50@ 1.00
Harrisii	8 00@10.00
Candidums	3.00@ 4.00
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Spiræa	2.00@ 3.00
Mignonette	1.00@ 4.00
Adiantum	1.00
Smilax	6.00@12.00
Asparagus	50.00
Primroses, per bunch	12c
Heath, per bunch	50

PHILADELPHIA, April 2.

Roses, Perle, Gontier, Niphetos	3.00@ 4.00
" Cusin, Watteville, Hoste	3.00@ 4.00
" Bride, Mermet, La France	6.00@ 8.00
" Kaiserin, Bridesmaid, Testout	6.00@ 8.00
" Belle, Beauty	10.00@25.00
" Laings	12.50@25.00
" Brunner	25.00@40 00
" Jacqs	10.00@15.00
Carnations, H. Keller	6.00
" Ophelia, Sweetbrier	3.00
" Edna Craig	3.00
" good ordinary	2.00@ 3.00
Violets	1.00@ 2.00
Mignonette	1.50@ 2.00
Asparagus	50.00@75.00
Harrisii lilies	8.00@10.00
Callas	6.00@ 8.00
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Tulips	4.00@ 5.00
Cattleyas	40.00
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" Jacqs	12 00@15.00
" Bride	5.00@ 6.00
" La France	4.00@ 5.00
" Mermet	3.00@ 4.00
" Meteor	4.00@ 6.00
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Carnations	1.00@ 1.50
" fancy	2.00
Harrisii	6.00@ 8.00
Romans	2.00
Valley, Tulips	2.00@ 3.00
Dutch hyacinths	4 00@ 6.00
Daffodils	2.00@ 3.00
Violets	.80@ 1.00
Mignonette	2.00@ 2.50

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Carnations	1.00@ 3.00
Tulips	3.00@4 00
Narcissus	3.00
Daffodils	2.00@ 3.00
Valley	3.00
Romans	2.00
Violets	.75@ 1.00
Callas, Harrisii	8.00
Pansies	.75@ 1.00
Smilax	10.00@15.00
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" Mermet, Bride	5.00@ 7.00
" Meteor	6.00@10.00
" Gontier, Perle Hoste	4.00@ 6.00
" Cusin, Watteville	4.00@ 6.00
Callas, Harrisii	8.00@10.00
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" Daybreak and Wm. Scott	1.50@ 2.00
Valley	3 00@ 4.00
Violets	.75@ 1.00
Tulips, Daffodils	3.00@ 4.00
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Foreign Notes.

A recent note in the *Journal of Horticulture* states that the black calla (Arum sanctum) is now in great demand for funeral flowers. The white callas are largely used for funeral wreaths and crosses, and a few of these dark blooms introduced among them created a demand. By the way, isn't this black calla remarkable for an extremely evil savor, something like the familiar skunk's cabbage of our swamps?

A fine introduction from Japan is the black bamboo, Phyllostachys nigra. The foliage is somewhat like Bambusa gracilis, with strong black stems. It should certainly be as hardy as B. Metake, and should be very useful in subtropical bedding.

In the *Kew Bulletin* Mr. George Nicholson speaks of the very extensive culture of roses under glass in America, giving some notes on the style of culture and varieties grown. Mr. Nicholson's remarks on horticulture in America will be found very interesting reading.

HARTFORD, CONN.—A plan which provides for the purchase of land and erection of greenhouses by the Hartford County Horticultural Society is being discussed and meets with considerable favor from the members. It is urged that the society could hold exhibitions of a high order under most favorable auspices if such an arrangement could be perfected.

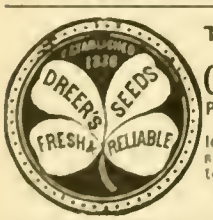
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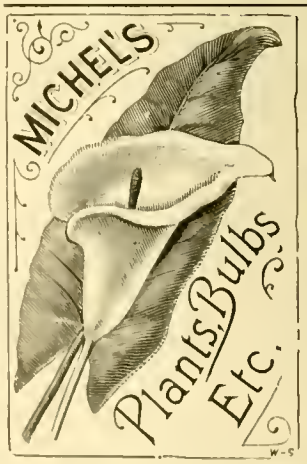
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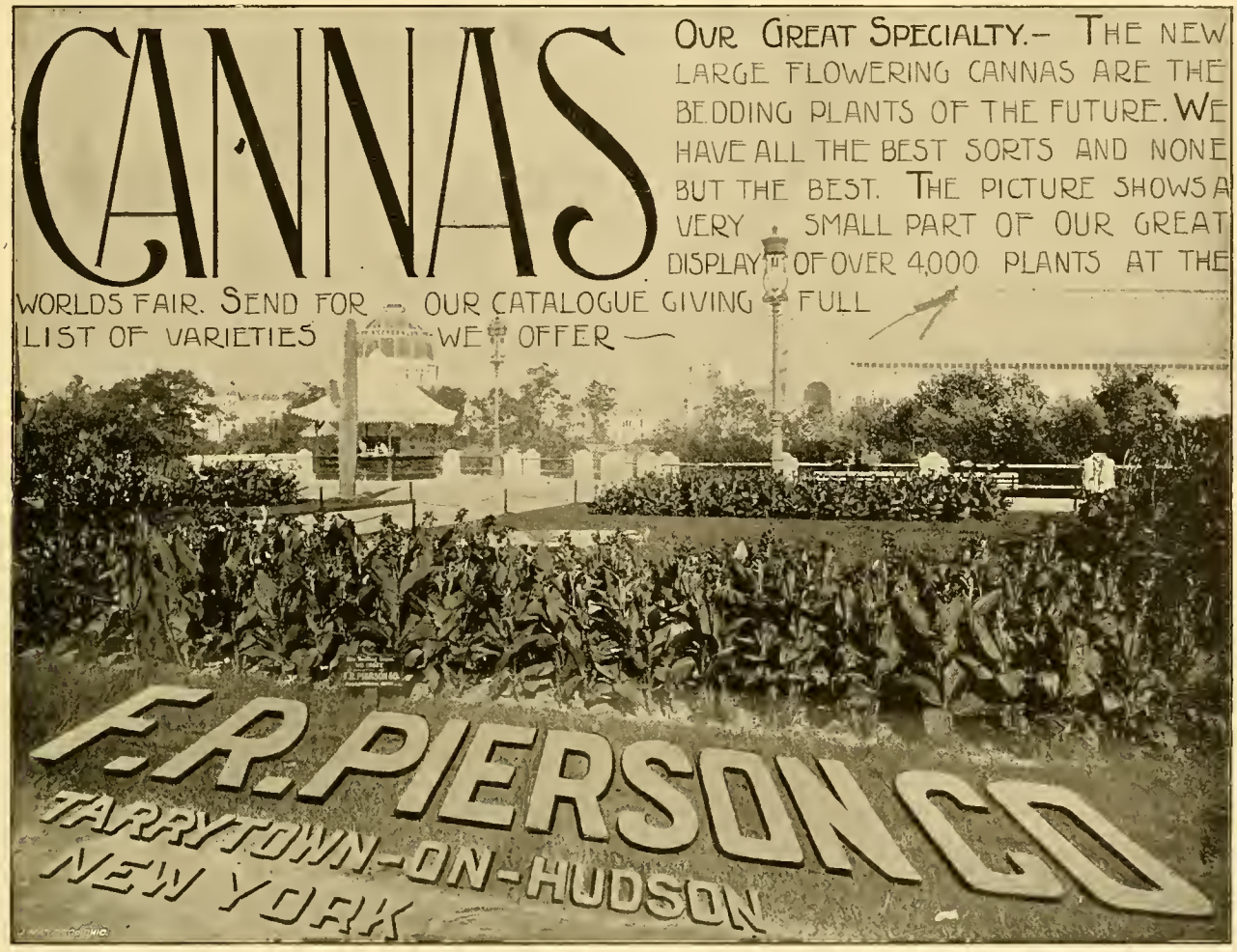
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Price, good plants, $1.00 Each; $9.00 per Dozen. Very strong plants, home-grown, $1.50 Each; $15.00 per Dozen.

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Pansy Seed, pure white $1 per pkt. of 2500 seeds.

Large yellow, dark eye, $1 " " "

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Extra fine strain of German Daisies, large and double, white, pink and red, mixed or separate, $2.00 per 100. Cash with order.

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Control of Ants.

Ants often become numerous enough in a greenhouse to be unwelcomed guests if not exceedingly troublesome. In our dwellings it is not so much what they eat that makes them such a nuisance as it is their presence wherever we go and in nearly everything we have to eat.

In the greenhouse they often push their galleries under the roots of plants, build their nests in the soil and become generally troublesome, but, if watched in their work for a short time, it will be found there is something that has attracted them to the place. Very often this is a colony of plant lice, or green fly, on some plant not far distant, and following an ant it will be seen running up to the lice and stroking them with its antennæ that they may give forth more freely a sweet secretion highly prized by the ants. Often there is a colony of similar lice working on the roots of some plant and because we see the ants running under ground around the roots and not the lice, we attribute the injury to the ants, which are there merely after this secretion.

If we can only find the nest of the troublesome ants, we can soon dispose of the colony. Usually the nest is in the soil, either in the greenhouse or just outside, and by making a small opening and pouring in a small quantity of kerosene, we can break up the colony. Better yet, a small amount of bisulphide of carbon may be poured in, the whole covered with a wet blanket for a few minutes and then the gas ignited after the blanket is removed. It is explosive and will drive the poisonous gas all through the lower chambers of the nest and kill the occupants. Some have tried putting paris green into the nest for ants to carry away and found it very satisfactory.

When the nests are somewhere in the frame work of the building, as the nests of the little red ant often are, it is much more difficult to reach the occupants. Catching them, as one might think of, with poisoned baits and traps is of little avail, as they breed about as fast as one could catch them by such means. If the wood containing their nest can be reached by removing a little of the floor or a board, kerosene poured over the place will then help. Pyrethrum will also aid much if persistently used, as ants are very susceptible to this powder.

I hope this may aid "A CONSTANT READER" in exterminating his troublesome pests. G. C. DAVIS.

Agr'l College, Mich.

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QUEEN AND NIVEUS, } Two Best Whites.

$7.50 per 100 for fine, strong plants.

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41 West 4th Street, CINCINNATI, O.

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SEED, TUBERS AND ROOTS.

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Extra fine, 2 and 3 years old.

Barr's Mammoth, Conover's Colossal and Palmetto.

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Florence Vaughan, Per 100 $25.00.

True Little Gem, Per 100 $10.00.

Soupert Rose, Per 100, 2½ inch, $4 00.

H. P. ROSES, ETC.

H. P. Roses, 2 year old (budded), at $10.00 per 100; $100.00 per 1000.

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Prairie Queen and Baltimore Belle, at $8.00 per 100.

Tree Roses, fine tops, H. P. sorts, at $8 00 dozen.

Raspberries—Shaffers Colossal, at $1 25 per hundred.

" Gregg, at $1.00 per hundred.

Gooseberries—Industry, 2 year old, at $10.00 per hundred; 1 year old, at $5.50.

Clematis—Jackmanni and Type, 3 year old, $4 80 per dozen, $38.00 per hundred; Jackmanni, 2 year old, Dormant (pot grown), at $3.75 per dozen, $27.00 per hundred.

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Hydrangeas Paniculata Grd., 18-24 inches, at $6.00 per hundred.

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CLEMATIS DAVIDIANA	$ 6.00	per 100	$ 50.00	per 1000
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PARDANTHUS SINENSIS (Blackberry Lily)	5.00	"	35.00	"
PERENNIAL PHLOX, fine named sorts	6.00	"	50.00	"
SEDUM MAXIMOWICKSII	6.00	"	50.00	"
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	Per 100	Per 1000
DAYBREAK	$2 50	$20 00
BUTTERCUP	4 00	35 00
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SILVER SPRAY	1 50	10 00
LIZZIE McGOWAN	1 50	10 00
GRACE WILDER	1 50	10 00
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Cash with order. 10c. per 100 extra when ordered shipped by mail.

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Fine assortment, clean cuttings, at .75 per 100 or $6 00 per 1000.

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Send for price list.

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THESE NINE **CARNATIONS** FROM SOIL.

Uncle John
The Stuart
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Edna Craig
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Daybreak
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Free from Disease and First-Class in every way.

Note, before you order elsewhere, that we offer the above and twenty other good varieties of Carnations, well established in soil, ready for planting out or potting up—delivery in April—at the price of cuttings from sand, and guarantee satisfaction. Send for list.

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Largest Stock in the United States.

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Fine plants, $7.00 per hundred; by mail, postpaid, $1.00 per dozen. You will make a mistake if you fail to secure a stock of this, always scarce plant, at the above low price.

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ADDITIONAL EVIDENCE OF THE VALUE OF THE NEW CARNATION "HELEN KELLER"

May be gleaned from the following letter, dated March 26; received from that practical florist Mr. Wm. Scott, Buffalo, N. Y., who writes as follows:

"The box of flowers of "HELEN KELLER" arrived in most excellent order on Friday A. M. I assure you I am much obliged to you. They are **WONDERFUL** in size and stem, and in keeping qualities, also. They were a revelation to me. I want 250 of them."

PRICE FOR WELL ROOTED CUTTINGS:

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" " zebrina (Zebra Grass) 8 per 100.

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Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE,

"Sweetbrier is all that can be desired."
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Rooted cuttings, $16.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS. $3.00 per 100; $25.00 per 1000.

Send for price list.

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Is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. NO MORE SAMPLES—we cannot spare the time. Send for circular. Per dozen, $2.00; per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.

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They are the cream of the year.
Send for circular to

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CARNATIONS.

ROOTED CUTTINGS.

For Immediate delivery: L. McGOWAN, PORTIA, PURITAN, and WM. SCOTT.

NO RUST.

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Silver Spray	Wm. Scott	E. Pierson
Lizzie McGowan	Daybreak	Portia
Blanche	Edna Craig	Wabash
Golden Gate	Annie Pixley	F. Mangold
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T. Cartledge	Nancy Hanks	Dr. Smart

These and other standard sorts $12 per 1000 and upwards

Varieties of 1894 Ready April 1st.

The Stuart (scarlet) was awarded the gold medal at Indianapolis. Uncle John (white) received certificate of merit at same place. Helen Keller, Goldfinch (yellow) and E. A. Wood.

SEND FOR COMPLETE PRICE LIST.

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Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

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The ADELAIDE KRESKEN Carnation

Rooted Cuttings, price $2.00 per dozen; $10 00 per 100; $45.00 per 500; $80.00 per 1000. Cash must accompany all orders.

Took 8 Prizes and Certificates.

Address *PETER HERB, Mt. Healthy, Ohio.*

Carnation Cuttings.

Free from rust and disease. Send for price list.

J. T. DeWitt, Bristol, Pa.

Worcester, Mass.

Though the weather was rather dull and disagreeable Friday and Saturday our Easter trade greatly exceeded our expectations. All the florists that your correspondent visited said that they sold out everything they had and could have handled more stuff if it had been obtainable. The only firm that had to sell lilies at a sacrifice was a large drygoods concern who advertised lilies at 19 cents a bloom and were compelled to sell for 10 cents and less to get rid of their stock.

The quantity of lilies in the market was considerably greater than last year and we could have disposed of a great many more. Prices ran a little lower than in 1893, as trade hung off till the last minute.

We disposed of quantities of bulbous stuff, both cut and in pans, Von Sions and Dutch romans selling very readily at $1.50 a pan, though tulips went slower at $1.00. Tulips are played out here. Small plants of azaleas, genistas and ericas also sold well for fair prices. Carnations came in by the bushel, mostly first-class stuff, and brought slightly higher prices. Marie Louise and single Russian violets we had in larger quantities than ever but they sold out early for regular prices. The supply of roses was not nearly enough for the demand and what we did have brought good prices.

All of the leading churches had large decorations of palms and lilies, equal to those of last year, which was rather surprising because of the fact that they have spent a great deal of money on charitable work this winter and would naturally reduce their Easter orders.

Trade has been booming since Easter foreclosed the mortgage on Lent and "sassiety" is on earth again. Stock is a little scarce just now as we have not recovered from Easter shopping.

The Horticultural Society held their annual reunion last week and it was a very successful and enjoyable affair. At eight p. m. the members and guests sat down to the loaded banquet tables and after disposing of the tempting viands and listening to the remarks of prominent horticulturists of New England, adjourned to the large hall and indulged in dancing till an early hour. SEEDLING.

CARNATIONS. Per 100 Per 1000

Rooted Cuttings, standard vars. $1.00 $9.00
Newer kinds and novelties $3.00 to $12.00

CHRYSANTHS.

Standard varieties $1.00
Newer kinds and novelties, $2.00 to $5.00

AGERATUM and ALTERNANTHERA . . 60c. $4.00
COLEUS and VERBENAS 75c. $6.00

For other stock see list.

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NEW CHRYSANTHEMUMS.

SPECIALTIES: Including The Queen, Nivens, Mrs. F. L. Ames, Golden Wedding, Judge Holt, and Good Gracious. Twelve plants for $1.00.
NOVELTIES: Including The World, White Eagle, Monarch of Ostrich Plumes, Silver Waves, and Pascha. Fourteen plants for $1.00.
GENERAL LIST: Including many new varieties. Sixteen plants for $1.00.
Now ready for delivery. Send for catalogue.

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GRAPE VINES For Florists.
With canes 4 to 6 feet long.
5,000 CONCORDS, 3 years old, $5.00 per 100.
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GERANIUMS for sale, 2-inch pots, at $2.00 per 100 for the next 10 days. Order early. 1 Amaryllis Johnsonii free with each $1.00 order.
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As we have collected our own stock in the tropics, you will receive them from first hands, and at bed-rock prices which speak for themselves. This offer is made in order to make room, and is limited to May 1st subject to stock being unsold upon receipt of order.

	Per 100
CATTLEYA TRIANAE, 5 to 7 bulbs, 1 lead	$ 75 00
" MOSSIAE, 5 to 7 bulbs, 1 lead	75 00
" PERCIVALIANA, 5 to 7 bulbs, 1 lead	100 00
" SKINNERII, 9 to 12 bulbs, 2 to 3 leads	100 00
CYPRIPEDIUM INSIGNE, 3 to 4 growths	50 00
" LAWRENCEANUM, 2 to 3 growths	75 00
" HARRISIANUM, 2 to 3 growths	150 00
COELOGYNE CRISTATA, 12 to 15 bulbs, 3 to 4 leads	75 00
LAELIA ALBIDA, 15 to 18 bulbs, 3 leads	75 00
" ANCEPS, 15 to 18 bulbs, 2 leads	75 00
LYCASTE SKINNERII, 5 to 7 bulbs, 1 lead	100 00
ODONTOGLOSSUM CRISPUM, 4 to 5 bulbs, 1 lead	100 00
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" GRANDE, 9 to 12 bulbs, 2 leads	100 00

25 plants at hundred rate. Special prices for other varieties on application.

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KNIPHOFIA or TRITOMA CORALLINA.

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More pleasing by far in color, more refined in structure and four times as floriferous.

Fine plants from 3-inch pots, $ 6.00 per 100; $50.00 per 1000
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GRIFFIN'S STRAIN.
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HYDRANGEAS,
MARIE LOUISE VIOLETS.
Send for Trade List.

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50,000 New Yellow Coleus

GOLDEN CROWN, the most hardy, strongest growing, highest colored yellow to date, 2-inch, well grown, $4 per 100; $35 per 1000; 250 at 1000 rates throughout.
10,000 in 12 other standard leading sorts, plants $1.50; rooted 70 cts. per 100.
10,000 Snow Crest Daisies, $3 per 100; $25 per 1000.
30,000 Mam. Verbenas, progressive type, none better.
5,000 of them Climaxers the Peerless crimson bedder.
10,000 seedlings from our XX and XXX progressive seed will give the most splendid new kinds, all perfectly clean and healthy, 3-inch, strong, fine, in bud, $2.50; flats $1.50 per 100, seedlings same rate; special rates per 1000.
5,000 Vgt. Vincas, extra fine, 3-inch $3; flats $1.50; rooted $1 per 100.
5,000 Giant Scabiosa Snowball, per 100 $1.50; seed, 25c. for large trade packet.
10,000 Gibson's sweet scented hybrid pansies, flats $1; frame $2 per 100; seed ⅛ oz. 50c, ¼ oz. $1, ½ oz. $1.60.
5,000 Gem Feverfew, 5,000 Golden Marguerites, 5,000 Dwf. Lobelias, 5,000 Golden Feather and C. Gymnocarpa, the last two seedlings small pkts. $1.50, rooted cuttings 75c. per 100.
Double Petunias, Dreer's new '93 set and the Queen the best all round double white, rooted, named, labeled, $2 per 100.
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30,000 Eulalia Zebrina and Japonica, potting size $2.50 per 100.
5,000 Torenia Fournieri, seed pan 50 cts., from flats $1 per 100.
Lots of other good things. Write for what you want. Premium offer for every $5 order: We will put in free 6 Giant Neruna Verbena and 1 Golden Strand Coleus; doubled on every $10 order, and 1 Dak. Primrosa, 1 pkt. Double Petunia and 1 pkt. Scabiosa snowball when desired. Price list free. Address, cash with order please.

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CANNA MME. CROZY, started plants, $1 per doz.
CHRYSANTHEMUMS, nice young plants, including some of the newer varieties, my selection, $2.50 per 100.
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ALYSSUM COMPACTUM, $2.00 per 100; strong, 2-in.
DUSTY MILLERS (Centaurea Gymnocarpa), $2.00 per 100 for strong 2-inch.
ENGLISH IVY, 2-inch, $3 00 per 100.
Any of the above plants 25 at the 100 rate.

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Make known your wants and we will be pleased to quote prices.

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SOUTH ORANGE, N. J.

500,000 Strawberry Plants.

OF 20 GOOD VARIETIES.

No. 1 plants very low. 5,000 CONCORD, 2 years, at $10.00 per 1000. 5,000 No. 2 DOUBLE PEARL TUBEROSE, good flowering bulbs, at $3.00 per 1000; 2,000 for $5.00. With or without sets. Send for price list to

CHAS. BLACK, Hightstown, N. J.

GERANIUMS.

Have 1000 extra fancy double pink Ivy leaved Geraniums, in 4-inch pots, in bud, which we offer at $1.50 per dozen. Orders filled in rotation.

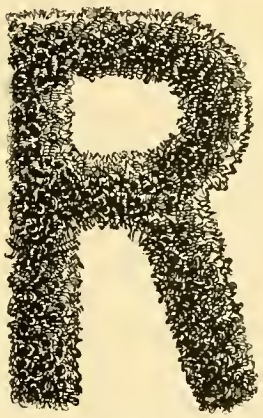
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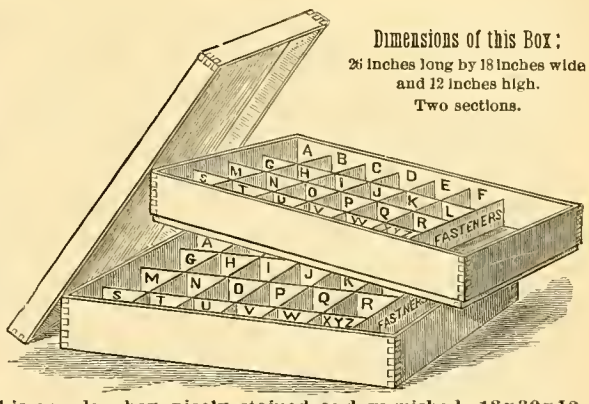
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"	Gigantea, "	1.00
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OLD RELIABLE MAKE OF

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Fruit and Ornamental. Spring Planting. Handsome new 160 page Catalogue *Free.*
Grapes, Shrubs, Roses, for
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Imperial German mixed, best strain in the market; large stock plants, most all in bloom.
2 inches in diameter.....$2.00 per 100; $15.00 per 1000
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VERBENAS—Hybrid mixed, very strong plants.
In 3-inch pots.....$2.50 per 100; $20 00 per 1000
Rooted Cuttings..... .75 " 6.00 "
Sample on application. Cash with order.

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Sweet-scented, ever-blooming, white and pink, large, field grown plants $8.00 per 100; $60.00 per 1000.
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Would EXCHANGE for small palms.

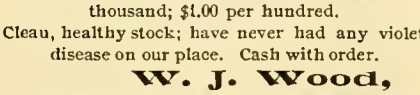
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MARIE LOUISE, Rooted Runners, $8.00 per thousand; $1.00 per hundred.

Clean, healthy stock; have never had any violet disease on our place. Cash with order.

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They Don't Break. Sold by all Dealers.
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10,000 GERANIUMS of the standard bedding sorts, from 3 and 4-inch pots.
10,000 CARNATIONS, from 2½-inch pots. Also 5,000 Rooted Cuttings ready now.
30,000 ALTERNANTHERA, ready April 1st, of all the standard sorts.
700 strings of SMILAX, of which the average length is 7 feet.

Write for prices, as I will sell at a sacrifice to make room for other stuff.

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PROP MARION AND MAPLE HEIGHTS GREENHOUSES.
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20 CANE STAKES FOR 1 CENT

A foot in length by simply using a sharp saw on a bundle of our best.

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GOOD ONES.

Verbenas, 23 varieties	90c. per 100; $8.00 per 1000
Heliotrope, 7 varieties	per doz. 20 cts.
Fuchsias, 12 varieties	" 20 cts.
Cigar Plant and Lopezia	" 20 cts.
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Chrysanthemums, 20c. Coleus, 12c.	Postage 1c. a doz.

Send for catalogue. **I. L. PILLSBURY, Macomb, Ill.**
Mention American Florist.

Couldn't Deceive Her.

A prim, but elderly lady, stopped in front of a florist's establishment yesterday, to secure some Easter lilies. Unfortunately for the customer, the last pot of this flower had just been sold. There were left, however, a number of flaring tulips of several attractive shades of crimson, yellow and purple. The florist, determined to make a sale, was equal to the emergency. He began a colloquy in this fraternizing way.

"Madam, I am extremely sorry that the old fashioned white varieties of lilies have all been sold, but here," (exhibiting the tulips) "are some of the latest and handsomest specimens of lilies from Japan. Of course you want to be in style this season, and I think half a dozen pots of the different colors would form a striking display for your window."

This did its work well, for the old lady with an unusually wise look said:

"Well, do tell! Everything has changed since I was a girl. I studied botany and all those high branches then, and know about it as much to-day as I ever did. So it's a good thing you didn't try to deceive me, for I could have instantly found you out."

The tulips were paid for and ordered to be sent home, and the old lady marched off with an air of triumphant wisdom.—*Daily Paper.*

Crude Oil for Fuel.

I read a note in the FLORIST some time ago on the advantages of crude oil for fuel. I would like to ask some of the experts in that line whether crude oil can be shipped to Mass., where coal is costing $7 a ton, and be burned to save money. Also where the best improved burners can be found. R. E. MOIR.

Boggs—"Do people buy fewer flowers during these hard times?" Florist—"No; but they pay fewer bills."—*Harper's Bazar.*

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Tree grown, three to eight branches, very fine stock, $12.00 to $25.00 per dozen.

PALMS, leading varieties at bottom prices.

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SPLENDID FOR CENTER OF VASES.

Out of 4-inch pots, 22 to 30 inches high, in fine condition, $10.00 per hundred. Cash with order.

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10,000 ROOTED CUTTINGS OF ALTERNANTHERA

P. MAJOR and A. NANA.

Fine stock and true, at 75c per 100; $6.00 per 1000. Ready April 15.

Also clumps of VIOLET Lady H. Campbell and M. Louise, cheap.

HOFFMEYER, Florist, Carnegie, Pa.

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GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimates. Satisfaction Guaranteed

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Are ready with a full stock of seasonable goods for Spring Weddings, Commencements and all occasions where floral decorations are used.

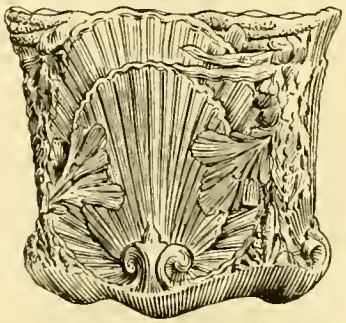
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Supplies of all Kinds, such as Immortelles, Cape Flowers, Wheat Sheaves, Flower Baskets, **Pot Holders, Plant Stands, Fern Dishes,** etc., etc.; all quoted **in our beautifully and richly illustrated new Trade List** mailed free. Address

August Rölker & Sons,

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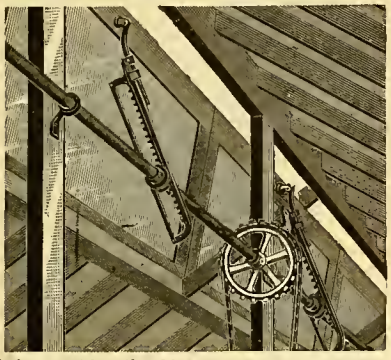


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Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out, "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

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TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

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are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

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Manufacturers of

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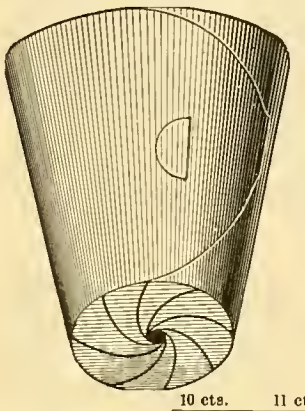
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NEPONSET • FLOWER • POTS

of Waterproof Paper, light, durable, unbreakable and cheap.



Tomato Growers have used them with success and proved their appreciation by repeated orders.

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Market Growers of Verbenas, Alyssum, Coleus and other plants, which do not shun moisture, have used them extensively in repeated seasons.

Recommended for light and safe packing of tender and valuable plants, for the marketing of Ferns, Dutch Bulbs, Lily of the valley and the like.

Cost about 40 per cent less than earthen pots, and weight considerably lighter, thus saving in first cost and freight.

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Who furnish samples, by mail, postpaid, on receipt of

	10 cts.	11 cts.	14 cts.	17 cts.	22 cts.	40 cts.	60 cts.
For 1 dozen	2¼-in.	2⅝-in.	3-in.	3½-in.	4-in.	5-in.	6-inch pots.

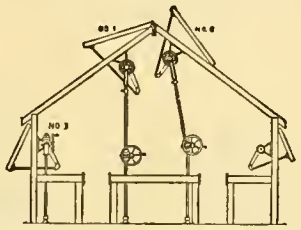
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VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years, no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

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THE MALTESE CROSS BRAND THE VERY BEST OF GARDEN & LAWN HOSE

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159 and 161 S. Fifth Avenue, - NEW YORK,

NATURAL GAS MADE GLASS,

FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.

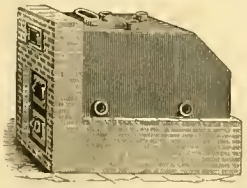
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Send for catalogue and price list.



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Superior Hot Water Boilers

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Write for price list. BATAVIA, ILL.

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(Time—Easter Saturday at the busiest moment.)

Lady to Proprietor—"I'm so sorry you have no carnations."

Prop.—"Oh, yes, we have some."

Lady—(pointing severely at head clerk)—"Why, that man told me they were all sold. How much are they?"

Prop.—"Some 75 cents, some $1.00 a dozen."

Lady—"Will you show me some, please." (Proprietor shows some assorted colors) "Haven't you any white ones?"

Prop.—"Yes'm, plenty."

Lady—"Well, I won't mind, I don't want to pay over 50 cents for them."

Lady goes out, and head clerk winks at first assistant, while proprietor looks very weary.

"Ah, There!"

This had been a favorite expression with a little boy who died recently in a certain town not a thousand miles from Boston. Wishing to send something to the funeral which would be touching and appropriate his relatives ordered a floral pillow with the inscription "Ah, There!" and the same was duly made up and delivered.

Another affecting inscription on a design, said to have been sent to the funeral of a young man of combative proclivities was, "And he never struck his mother."

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MATERIAL FOR GREENHOUSES.

Send for Circulars and Testimonials.

Address LOCKLAND, O.

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FLOWER POTS.

Standard Flower Pots. Machine Pots, Hand-Made Pots, Florists' Cut Flower Pots, Saucers, Hanging Baskets, in 12 fancy patterns.

FIRST-CLASS GOODS. LOWEST PRICES.

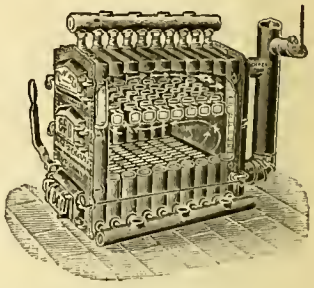
Send for price list. Give us a trial. We will surely satisfy you.

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Bowmanville, Chicago, Ill.

SOLD ON THEIR MERITS AND NOT ON THEIR ANTIQUITY.

ROYAL HEATERS

THE RIGHT KIND of BOILER for a GREENHOUSE.



HART & CROUSE,

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"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Potterv Companv,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS

Our new **Pottery**, new **Machinery**, the very **best Clay** in the **Country**, and our new **Patent Kilns**, all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

Standard Flower Pots.

25 PER CENT. OFF for cash with order until further notice. A large stock on hand of good, strong pots.

PRICE LIST, for any number:

1¾-inch pots	per 1000, $3 00		3½-inch pots,	per 1000, $7 25	
2 -inch pots,	" 3 25	4	-inch pots,	" 9 00	
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-inch pots,	" 5 00	7	-inch pots,	" 35 00	

HILFINGER BROS. POTTERY,
Largest in the State. FORT EDWARD, N. Y.
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Send orders for . . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
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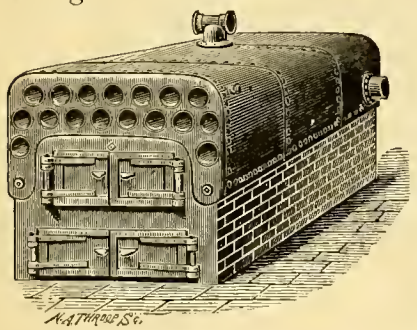
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Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.

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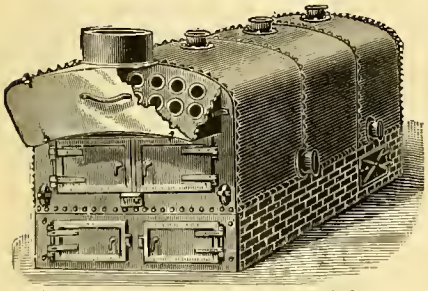
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Boilers made of the best of material, shell, firebox heets and beads of steel, water space all around front, sides and back). Write for information.



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THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

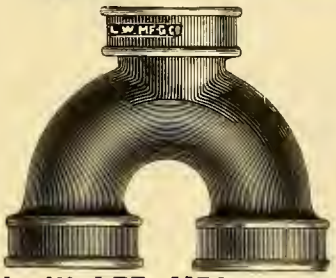
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Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

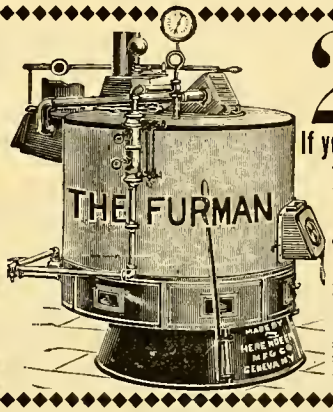
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These Boilers have a high reputation for Staunchness, Durability and Safety, and are Great Coal Savers.

WE MAKE A SPECIALTY OF GREENHOUSE HEATING.

Over 150 styles and sizes, for Steam and Hot Water; also a full line of Horizontal Steel Tubular Boilers.

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FOR GREENHOUSES.

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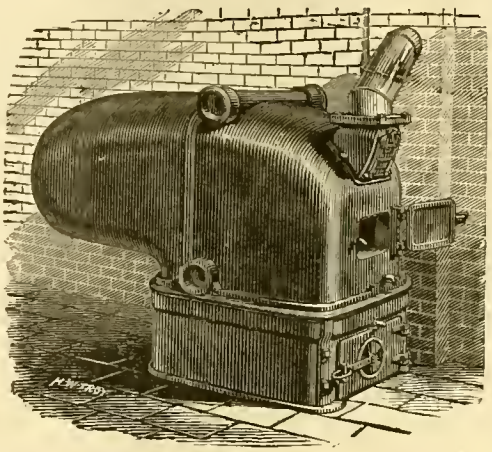
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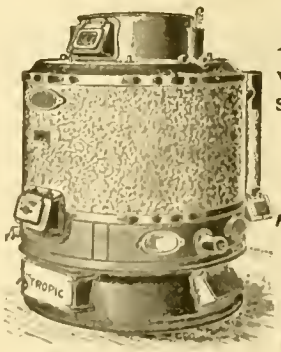
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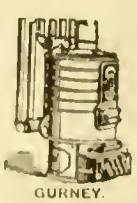
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SPRINGFIELD, ILL.—Easter trade was about 10% less than last year. Cold weather shut off the trade to a great extent, particularly in plants. Prices were somewhat lower. Supply was ample. Roses, carnations and violets were pretty well sold out but there was a surplus of other stock. Quality good. Harrisii in pots or cut sold at as low as 10 cents per flower and bud counting all. Carnations sold at 40 cents a dozen and roses at $1 to $1.50 a dozen.

ALBANY, N. Y.—Easter trade was about the same as last year. Prices were a little lower on small cut flowers. Large Beauties, Jacqs, Brunners and other hybrids brought better prices and more were sold. Supply was ample except of carnations. Quality about the same as last year. Bought more and sold more at usual profits. Increased call for good Jacqs, Brunners and American Beauties. There was a large sale of plants. There was a great rush on Saturday though during the week preceding it had been slow.

Ornamental Horticulture at the World's Fair.

[*Extracts from paper read before the Mass. Hort. Society by Wm. J. Stewart.*]

In this connection ornamental horticulture may be considered, first, in its capacity as an indispensable feature of the equipment of the grounds and buildings; secondly, as illustrating the varied horticultural attractions, resources and industries of countries and States remote from each other, and widely differing in climate and topography; thirdly, as offering an opportunity for individuals and firms engaged in horticultural pursuits, all over the globe, to exhibit to the world in friendly competition the result of their labors. First comes the landscape work, as without the landscape architect in designing and locating and the gardener in adorning, those beautiful buildings would have lost much of their impressiveness. Our great landscape architect made the setting for those jewels, brought them into harmony and united them into one almost perfect whole; the requisite floral adornment would have made it perfect, especially the wooded island. The design was grand, and, being for the World's Fair, it should have been carried out to completion.

Horticultural Hall was ill-appointed and unsuited for the purpose it was supposed to serve; it should have been designed under the best horticultural advice obtainable. Practical horticulturists warned and entreated the management to give the horticultural section of the exhibition a full year's start ahead of the other departments; but at last they had only the immense building, with little to put in it. Their loud appeal for help brought a little from Massachusetts, but New York and Pennsylvania furnished the main part of the exhibit. After the exhibits were placed, the whole was desecrated by lemonade and knick-knack peddlers' stands. The bad judgment which allowed this merited the severest condemnation.

Of the displays made in the name of the various States, it must be confessed that few were worthy of a passing notice. The entire West did almost nothing. Illinois, which should have been first, was conspicuous for the absence of any respectable endeavor on her part. Outside of New York and Pennsylvania no worthy State exhibit was made. Between the States named there was a strong effort for supremacy. The character of their exhibits showed that, within their borders, horticulture has had a strong foothold for more than a generation, and their public spirited action is entitled to all praise. The same may be said of the showing made by Ontario. Still, the principle which ruled the selections for these exhibits was not the best. Suppose that instead of Japan's faithful representation of native gardening processes, Mexico's curious cacti, New Zealand's wonderful tree-ferns, and Holland's grand collective exhibit of hardy azaleas and rhododendrons, those countries had contributed merely a diversified exhibit of greenhouse plants; what a loss in interest and educational value the horticultural department would have suffered. Individuals engaged in the several departments of horticultural trade might be safely depended upon for displays of plants, tropical or otherwise; but States should have improved the opportunity to set forth their own native resources. For instance, what a noble display Massachusetts might have made with a naturally planted collection of her native flora, upon a bit of meadow, a rocky hillside, gay with many species of shrubs and wild flowers, from the first pussy willow and hepatica of springtime to the last purple aster of autumn. If you would learn whether the people are interested in such things, just look, any Saturday afternoon next summer, into that corner of this hall where the collections of wild flowers from the woods and fields are arranged, and observe the eager crowds who are admiring them. Let the display of roses, orchids and lilies be ever so gorgeous, that corner with its wild flowers will hold its own. In the old-fashioned garden connected with her State building at the fair, Massachusetts rose to the full height of her opportunity. As W. R. Smith of the Botanic Garden at Washington, truly said, "It was well conceived and elegantly carried out."

In considering the competitive displays in the different classes, the first point to notice is the provision made for this department. The buildings intended for these exhibits should have been constructed with direct reference to their future contents, but they were not. Had this been done we should not have seen rare, delicately reared tropical specimen plants being chilled to death in the room with hardy and half hardy plants. The exhibitors on the wooded island were well provided for during the continuance of spring weather. But when the summer heat came, the loose, porous soil of which this artificial land was constructed dried out rapidly, and no adequate supply of water being provided, the plants, especially the herbaceous class, soon failed; and this at the time of the greatest attendance of visitors. Nevertheless, this island was an attractive s[illegible] and through its influence the use [illegible]ly plants in gardening must have received a great impetus throughout the West. A few of the exhibits which were of superlative merit where Pitcher & Manda's display of decorative plants; the cannas from Dreer, Vaughan, Pierson and Craig; the cacti from Blanc; the rhododendrons from Moser and Waterer, the latter including a most instructive collection of seedlings, and the fancy caladiums from

Rio Janeiro. In general, the irises, pæonies, campanulas, poppies, pansies, azaleas and other outdoor displays on the wooded island in the early months were wonderfully fine. The opportunity given to the seedsmen for competitive exhibits of florists' flowers, including cyclamens, cinerarias, primroses and calceolarias, was improved to the fullest extent. It was sharply criticised at the time, but proved to be well worth all that it cost, for it attracted many thousands of visitors to the grounds before the fair proper was opened, and the exhibits were of the highest merit. They clearly demonstrated the marvellous results possible from close attention to the improvement of specialties. It is much to be regretted that of gladioli—millions of which are now exported from this country—the only exhibit of any extent was a foreign one; and the tuberoses, another important American product, were scarcely seen.

The extensive display of American horticultural implements and of American greenhouse construction, heating and ventilation was most creditable, considering the opportunities offered.

The system of judging and awards caused much dissatisfaction. The one-judge plan is un-American in principle, placing too much responsibility on one man to become popular. The interests of every competitor in an exhibition demand that the chances of an unfair verdict shall be minimized as much as possible. Against a decision reached after due deliberation by three experts, no protest can have any weight. This question of judging is of vital importance to every society; for unless exhibitors are convinced that every precaution has been taken to secure full justice, they will stay away. The Columbian medals are not likely to be valued so highly by their recipients as they might have been, had they been less freely awarded, or had they been so varied in design or value as to indicate degrees of merit. A medal for a rare and skilfully grown plant, or group of plants, loses most of its significance as soon as it becomes known that it differs in no respect from that given for a collection of wire designs, or a wreath of dried mosses. True, in the diplomas accompanying the medals, points of excellence in exhibits are carefully noted; but the diploma can never take the place of the medal as an award for which to strive. It is a question whether it would not have been better if the time-honored plan of gold, silver and bronze medals, to indicate degrees of superiority, had been adopted.

In conclusion it is pertinent to inquire whether that branch of American horticulture which has been considered is today any further advanced than it would have been had this great fair not taken place; and also whether we have taken full advantage of this grand opportunity to present our art in its proper light before millions of visitors. Horticulture's grand possibilities never recovered from the unseemly wrangle and delay at the start, and many of the unfortunate features to which attention has been called were directly traceable to this fact. It is gratifying to note the long step forward made by ornamental horticulture in the independent position secured for it as a separate department. In this it sought and obtained nothing more than its just recognition. While we may regret that much more was not accomplished, we should be grateful for what was achieved, not forgetting that mistakes are educators and serve the purposes of education as well as successes—provided we recognize and honestly acknowledge them as such—and that only in the future can the full results of the great exhibition be justly estimated.

The Arrangement of Flowers.

[Continuation of articles begun in our issue of March 22.]

SIMPLE BOUQUETS.

It requires more skill and practice to properly construct a bouquet than any other arrangement and here we find that natural good taste is indispensable to success. If you can arrange a high class bouquet you are warranted in laying claim to a high rank in your profession.

Bouquets may be divided into four classes: Hand bouquets, vase bouquets, corsage bouquets, and bouquets for funeral purposes. We shall treat them separately under the different headings as we progress.

For a beginning let us consider the bouquet in its simplest form, as a bunch for the hand or vase. Hand bouquets are generally made of but one variety of flower, such as roses, carnations, valley, Roman hyacinths, violets, etc. If the bouquet be made of different varieties of roses, be careful to select such as harmonize in color. Such varieties as Meteor or Wootton with Perles make a good combination, and if a third variety be added use Bride or Niphetos. Three shades like the above might be mixed together, as is often done, without injury to color effect, but we prefer to bunch the colors separately, taking care that the shades merge into one another gradually and that the dividing lines are not drawn too sharply. A combination of Brides and any of the pink varieties, such as Bridesmaid, La France and Mermet is good. Mme. Watteville and Bride is the best combination of all. Mme. Pierre Guillot and Perle harmonize well. Perle and Mme. Hoste with pink is not bad but not so good as the former. Avoid the mixing of pink varieties. Bridesmaid and Mermets are perhaps the only two pink varieties that form a harmonious color combination, and if arranged properly the blending of the two shades makes a good effect.

In the red varieties we find it just as difficult to blend the shades by using different sorts. Jacque and Meteor, if the shades be selected judiciously, might be bunched together without destroying the effect, but don't attempt to go further; it is far safer to confine ourselves to one variety.

But color effect is such a very important subject that we shall treat it separately later on. At present we will therefore confine ourselves merely to the arrangement of simple forms that do not require much study of this subject. Nevertheless we cannot ignore it entirely even in these forms, so let us start out by keeping in mind that if we arrange a bouquet of mixed flowers never bunch different shades of pink, or pink and red together, but place white or light shades of yellow between them.

The style and form of a hand bouquet will depend largely on the trade you cater to. In fashionable localities in our large cities there is little or no demand for the cheaper grade of bouquets, while in residence districts of the middle classes and country towns such bouquets are in great demand. Generally speaking the demand is for a loose arrangement, but frequently we meet with customers, mostly of European birth, who will insist upon the conventional European style of bouquet, a rather stiff arrangement, nearly flat on top, with either paper or lace holder.

Probably few florists in this country know how to make such a bouquet and we venture to say, will lose very little by never learning, although once in a while we meet with a member of the Bon Ton, who, having in a two months sojourn in Europe acquired continental habits and tastes, demands this style of bouquet. But as we said before a loose arrangement is generally preferred, and certainly should be recommended.

Our first illustration shows the top view of a bunch of two dozen roses with their own foliage and Adiantum cuneatum, in shape slightly rounded over the top, the flowers set nearly even in height, although the arrangement might be varied by raising some of the blooms above the rest. If you do this set the larger roses low and raise the smaller buds. If the roses are borne on strong and stiff stems no wire will be required but if weak use a No. 24 or No. 26 wire (see article on stemming). You will find it useful in holding the flowers in the desired position.

If more than one variety of flowers be used select such as will form a suitable combination. Roses and lily of the valley, or roses and Roman hyacinths go well together. Mignonette can be used with good effect. Tulips, daffodils, Dutch hyacinths and flowers of that nature are undesirable and seldom used for the purpose. Carnations, either for the hand or vase, are best by themselves.

Our second illustration shows a bunch of two dozen Portia carnations arranged for the hand, and may serve equally well for the vase. The carnation is a rather stiff flower and difficult to arrange in a graceful form. Some varieties are better adapted to this purpose than others. Portia and Lizzie McGowan are two of the best. In many of our best sorts the stems are so stiff that great care must be taken to avoid having them pack too closely together. We often find it necessary to employ the use of wire, though the stem be fully long enough, and for an entirely different reason than that applied to the rose. By using the wire on the stem we are enabled to bend it in the position required without running the risk of breaking it, and if done properly the wire will not show in the least. Don't run the wire up close to the flower, but twist it around the stems, taking two or three flowers together, three or four inches below the flowers. If arranged for the hand we may add a few fronds of adiantum. For a vase, if there be plenty of buds on the flower stems, we seldom employ any other foliage. If a few sprays of their own foliage can be had it will serve us better than anything else we can find, but unfortunately this is not always obtainable.

Our third illustration shows an arrangement of mixed flowers for a vase. In a bouquet of this kind we may use almost every variety of flower with stem long enough to reach the water. The more careless and natural such a bunch is arranged the better will be the effect. Use plenty of green. You will have a stock of the evergreen wood fern on hand; these are inexpensive and very useful for your purpose. In fact almost any kind of foliage, providing it be not too coarse, if the bouquet be small, can be used with good advantage.

The bouquet of mixed flowers we illustrate was made of a common grade of the following flowers: 3 tulips (Kniserkroon), 9 Narcissus poeticus, 5 La France roses, 2 Brides, 1 Am. Beauty, 2 spikes of Dutch hyacinths, 8 Romans, about one dozen pieces of mignonette, one-half dozen adiantum fronds and 2 dozen common wood ferns. The amount of material, as will be seen, is very small.



TOP VIEW OF BUNCH OF TWO DOZEN ROSES.

ARRANGEMENT OF FLOWERS.

Now let us proceed to make the best possible effect with this limited amount of stock. Although the stems are all of sufficient length, still we find it advantageous sometimes to use wire, as by this means we are enabled to bend the stems and keep them in proper position to better advantage. This wire, as has been stated before, will not injure the keeping qualities of stock in the least and need not be made noticeable at all in the arrangement. The wiring of roses has been described before. Wire the narcissus the same as carnations for a bouquet, by taking 2 or 3 flowers together and run the wire down the stems 3 or 4 inches below the flowers. Handle Romans the same, but as the stems of this flower are very brittle we have to be careful. Don't use a heavier grade of wire than No. 26. The tulips, mignonette and greens we don't wire.

We commence of course with the top flowers, the tulips in this case, using white spool cotton No. 10 for tying. Start tying low down on the stems of the flowers if you wish your bouquet to be loose and graceful. Place the narcissus next. The stems being wired, you can now bend them just as you want to. Keep wrapping the thread around the stems as you proceed so as to keep the flowers in shape, not forgetting to intersperse the green, and don't be sparing of it; wood ferns cost but 5 cents a bunch of 25 and if properly used save a dollar's worth of flowers. Leave the heavier roses for the body of your bouquet. Arrange the flowers at the finish in such a way that they will droop over the rim when placed in a vase.

If the bouquet is to be placed on the mantel or in any other position where a front or side view only is desired we should so arrange the flowers as to show to the best advantage in such a position. Our illustration is taken from a bunch arranged for such a purpose. If on the other hand the flowers be placed on the table, where they can be viewed from all sides, finish the bouquet alike all around.

We shall treat of the more elaborate forms of bouquets in their various styles in a series of articles later on. Our next subject will be the arrangement of simple and inexpensive baskets.

Miscellaneous Seasonable Hints.

Just as soon as the ground is in working order plant some gladiolus. We are told to plant at intervals during the summer, which is all right, but let the first planting be about half your crop. They don't flower all at once. The cutting from the first crop will last 6 or 7 weeks. Gladiolus deserve and should have the deepest and richest piece of ground you have.

If you wintered over any young hollyhocks, which you should have done, plant out for yourself at once. I have had the greatest success with these stately flowers in a heavy soil with a liberal lot of manure added. You need not manure the whole ground, but in each hole prepared for the plant, which should be one foot deep and two feet wide; let one-third be cow manure. Really fine spikes of hollyhocks are rarely seen as they were 20 years ago. They will sell well for many purposes and be a grand flower for your store window in summer when other flowers are scarce.

If you have a demand for or want to increase your stock of that most useful plant, Helianthus nanus, fl. pl., don't fail to at once dig up the old roots and divide. The smallest piece showing life, if put into a 4-inch pot, will make a satisfactory plant for selling in a few weeks. There are very few garden plants more satisfactory in the now popular mixed garden than this continuous flowering little sunflower.

If you had occasion to sow any perennials or biennials last fall, such as Coreopsis lanceolata, Delphinium formosum, Dianthus barbatus (Sweet William) and others which are so useful for summer flowers, don't delay in getting them planted where they are to flower at once or as soon as the ground is dry. They should have been wintered in a cold frame and a little frost won't hurt them at all. If you had no time to move or divide your herbaceous plants last autumn and you have occasion to do it, it can be done now just as well before there is any start in the growth. Such useful plants as the herbaceous phlox, pæonies, pyrethrums, etc., can be moved and divided now without any injury to this season's flowering, if done with care.

There is yet time to propagate a few of the leading plants. With us coleus sells until almost the 1st of July. There are sure to be some parties who don't have their new grounds ready before that time. A large batch should now be put in and will still make good 3-inch bedding plants by the first of June. The same with achyranthus, although it is a much slower grower.

Don't forget to propagate about now your winter flowering begonias of several kinds. I find they root rather better now than in February.

It's a good time to take the runners off the violets for next winter's crop. Some put them in sand as you do ordinary cuttings, but this is scarcely necessary, as you have now such fine runners to choose from they can be put in 2 inch pots at once or in flats of earth and potted off in a month's time.

Don't let the young asters, phlox and other annuals sown last month get too "leggy" in the seed box. If you have a quantity you can transplant into cold frames two inches apart. If that is not convenient flats with two or three inches of soil are just as well and place them in cold frame. Be sure that the roots are firmly planted, not at the neck so much as around the roots, and let the little plant go down in the earth to its seed leaves. When you have benches to spare in cool houses instead of cold frames, use them, but you should not have any benches for such a purpose at this crowded time, and there is such an abundance of light and air about a frame that these hardy seedlings do altogether better in them.

The bright sun pouring down on us now will cause much extra labor in watering and injury too if you don't shade. If possible get your stock so arranged that in one house or one portion of it you can have all those plants that don't need shading and in another those that do. The very great majority of plants, both hard and soft wooded, are not hurt by a little shade if you don't stop firing too soon. I have tried several mixtures for a permanent summer shade, and the best of all is naptha and white lead; be sure to have no oil in it unless you want a scrubbing bee in the fall. You can make the wash as thin or thick as desired and ap-

ply with a whitewash brush, then you will have it done properly. This takes much longer than syringing it on, but what of that? As Mr. M. A. Hunt says, "labor is cheap; it's brains that come high." WM. SCOTT.



Orchid Notes.

CATTLEYA LAWRENCEANA.

This magnificent cattleya although first discovered about fifty years ago, was not known to cultivators until rediscovered and introduced by F. Sander & Co. about ten years ago. It was at once assigned a prominent place among cattleyas. After the many varieties of C. Trianæ have vied with each other to keep the orchid house gay and have passed away until another season, then Cattleya Lawrenceana comes into bloom, developing spikes of five, six or seven flowers of beautiful rosy purple. The blooms average about five inches across and last a long time in perfection. It is indeed a valuable addition and cannot be too strongly recommended.

It is a very distinct, likewise a very variable species. The most distinct variations I have seen are C. L. rosea superba, C. L. concolor and C. L. Macfarlanei. The variety rosea superba has flowers larger than the type, of a very delicate rosy purple faintly striped with white; the sepals much paler than the petals, and labellum which has a whitish disc. The variety concolor has flowers of a uniform pale rose color of good substance and form. The variety Macfarlanei, which is more robust in habit, larger in all its parts, a full flower pale rosy purple at the base of sepals and petals, the remainder of sepals, petals and lip of the richest and deepest purple, is a superb and striking variety, named in compliment to Mr. Macfarlane, the artist.

This plant is of comparatively easy culture, doing well in baskets kept well up to the light, requiring plenty of moisture during the growing period. It has recently been largely imported, consequently is within the reach of everybody, and being of easy culture it should not be overlooked by any who desire a valuable addition in their orchid department.

CYMBIDIUM GIGANTEUM.

This fine cymbidium is a native of India. It is of very striking appearance, pseudobulbs five to six inches long, with long arching deep green foliage over two feet in length, flowering on long racemes of ten to twelve flowers, each three to four inches across. Sepals and petals are of bronzy green striped longitudinally with dull red, lip oblong, three lobed, side lobes colored like sepals and petals, middle lobe yellow spotted with red.

This plant is of easy culture, flowering in December and January. This makes it extremely valuable as a decorative plant. It will thrive in an ordinary greenhouse and will amply repay any extra attention bestowed upon it. It loves a cool temperature and while growing should be abundantly supplied with water.

CYMBIDIUM LOWIANUM.

This is a plant of more recent introduction than giganteum, being introduced by Low & Co. in 1877. It created quite a sensation when first exhibited in 1879, also in 1880 when first flowered in America. It commanded very high prices until its reintroduction by Low & Co. about 1886. As a horticultural plant it is without doubt superior to giganteum, which in general appearance it most resembles. Although the flowers are not so large and varied, yet the much longer and more arching and graceful spikes and the brighter colored flowers which last much longer in perfection, give it an especial value. It flowers in March, April and May. I have seen twenty seven blooms on a spike, which has lasted about three months in perfection. The flowers are three to four inches across, sepals and petals greenish yellow with faint reddish veins, lip three lobed, the side lobes roundish oblong, light buff and the middle lobe reflexed and covered with velvety pubescence, dark red crimson margined yellow.

There is a form with sepals and petals bronze yellow, with a much richer labellum. Also a form which appeared three years ago, which is named C. Lowianum concolor and has for a synonym C. Mandianum. It is very distinct, of good form; the sepals and petals are greenish yellow, the upper portion of lip a bright buff yellow, the remaining surface of lip light yellow; all traces of crimson are absent. It is a valuable acquisition. Like its allies it is of easy culture and makes a fine decorative or exhibition plant. The flowers last long in perfection and become more and more beautiful with age.

North Easton, Mass. WM. ROBINSON.

Orchids at Orange, N. J.

For one interested in cypripediums (and who is not) there is no more attractive spot to visit than the greenhouses of Henry Graves, Esq., at Orange, N. J. Here are to be seen the almost incredible number of seven hundred species and varieties of cypripediums, besides lælias, cattleyas and many other orchids in extensive variety. Cypripedium Chamberlainianum is represented by about seventy plants among which are several distinct forms. One plant of this species has been constantly in bloom since July 10, 1892, although bearing seed at the same time. There is quite a show of Cattleya Schrœderæ at present and Lælia purpurata will soon be in bloom, in large numbers. Mr. R. M. Grey, the gardener in charge, is an enthusiast on orchids, cypripediums being his particular favorites, and of these he has raised many beautiful hybrids. An experiment which he is now trying is to plant cypripediums in pebbles instead of moss. So far they seem to thrive well under the new conditions and many of the objectionable features of the old method are avoided.



Carnation Notes.

What has Easter taught us? One thing assuredly and that is that the demand for fine well grown carnations is decidedly on the increase and that secondary stock is no longer to be thought of by the wise grower. Easter has in a great measure been a repetition of Christmas with the difference of everybody seemingly being satisfied one with another. This is as it should be; the relations between the grower and the retailer should be of the pleasantest kind. The grower should be careful to furnish only good stock and the retailer should be willing to pay a fair price for the same. There should be considerable difference in price between a good flower and a secondary one, considerable more than there is at the present time. A flower that will bring $2.00 per dozen should bring the grower not less than $8.00 per 100, and the flower that brings but 25 cts. per dozen should not be worth to the grower anything over $1.00 per 100. There are of course times when a good flower will sell for less than its real value but taking their actual value in an ordinary market the above would be a fair ratio. At Christmas and Easter when the flowers that usually would bring 25 cts. are raised by the retailer to 75 cts. he should not object to paying the grower $3.00 per 100 for them. Taking the season through I don't think the growers have such a delightful time of it and as far as I can learn they are not becoming millionaires very fast.

There are no doubt many little points we think of now where we could have bettered our crop for Easter and it will be well to make a memorandum of them for reference. Personally I found the express companies in a sort of miniature Christmas panic. Instead of getting my flowers into St. Louis on time they arrived one day late and I have made a large entry in my memoranda that it is best to get one train ahead of time for Easter as well as for Christmas.

One party ordered a lot sent C. O. D. and then refused to take them; they were too far from home to have them sent back and he no doubt secured them for little or nothing. This is an old scheme but there are always some, like myself, who are a little too confiding, and it would be better all around if the C. O. D. business were abolished entirely. If a man has the money to pay the C. O. D. he has it to send in advance and if every grower would refuse to send such perishable articles as cut flowers C. O. D. it would make a healthier trade.

There seemed to be a superabundance of red in some sections. If you have had too many of any one color it will be well to call a halt now in arranging for next season. If any variety has not paid you, do the same. It is far better to throw them out now than to grow them all summer and next winter and wish they were out then. If you know of a variety that will pay you better than what you are now growing do not hesitate to buy it, for it is penny-wise and pound foolish to grow an inferior sort because you have it in stock or can buy it cheap.

A. M. HERR.

Acacias.

These handsome and useful Australian plants seem to have been neglected to a great extent in this country, but are now beginning to be appreciated both for decorative purposes and for cut flowers. They flower just at the time they are most needed, that is in the latter part of the winter, from January till May. They stand decorating well, and last for quite a time in perfection. They are as easy to grow as a camellia, in fact a cool greenhouse just suits them, therefore they are very useful to the florist who has to keep plants in the conservatory attached to the residences of his customers. They can be easily propagated from cuttings placed in



BUNCH OF TWO DOZEN PORTIA CARNATIONS.

ARRANGEMENT OF FLOWERS.

a moderate bottom heat, or from seeds. They can be readily grown into good flowering plants, and do best in a mixture of equal parts of loam and peat with a liberal quantity of sand. In summer they do best plunged to the rim of the pot in ashes in the open air. Some of the species are of a drooping pendulous habit, and are well adapted for training on pillars or back walls of the greenhouse.

Acacia argyrophylla is a handsome dwarf species with silvery green leaves, axillary stalked globular heads of yellow flowers. A. dealbata floribunda is a very free flowering species, producing deep lemon colored flower heads in axillary racemes, and forming panicles at the ends of the branches. A. Drummondi, one of the handsomest of the species, is very dwarf in habit, and flowers very freely, the flowers being pale yellow produced in cylindrical spikes. A. Riceana is a handsome and distinct species, the branches being pendulous, and although it makes a handsome pot plant it is best adapted for a pillar or wall; the flowers are produced in long spikes and are pale yellow in color.

A. pubescens, a fine and showy variety, has small heads of bright yellow flowers in racemes, which are collected into panicles at the ends of the branches. A. grandis, a strong growing species, the flower being large, globular, and very freely produced. A. lineata, an erect shrub, has spikes of yellow flowers produced from the axils of the leaves, and often branched. A. lopantha, a good strong growing variety, has cylindrical spikes of yellow flowers which are produced in pairs from the axils of the leaves. A. albicans is a very good growing variety with white flowers. A. armata, strong growing late flowering species with dark green foliage. The flower heads are solitary in the axils, and are of a rich golden yellow. A. cochlearis, a stiff upright grower, with fragrant yellow flowers which are produced in pairs from the axils of the leaves. A. oxycedrus (syn. taxifolia) is a fine species of very rigid habit with bright green leaves and dense spikes of bright yellow flowers. There are a great many other species, but there is a great deal of sameness amongst them. There were some few nice plants forced for Easter around New York and the florists found them very useful. To the gardeners in the private places these plants are very useful, and should be grown more extensively than they are; they should take the same place here that they do in Europe. They grow freely, take but little heat, and are not very subject to disease.

JAS. S. TAPLIN.

Hackensack, N. J.

New York.

The past week has been one of unexampled dullness. It fairly discounts anything experienced in Lent. There is an abundance of everything in the cut flower line but not a ripple of activity visible anywhere. None of the retailers are doing anything in the way of large jobs, transient trade is at its lowest ebb and it is pronounced by all to be the dullest week of the season.

The situation has been getting worse each succeeding day, for heavy shipments are coming in and as there is no adequate outlet they are piling up in the hands of the wholesalers in a most discouraging fashion. The Greeks are in clover. It is a great time for them and they are having it all to themselves. Roses of fine quality are to be had at $10 to $15 per thousand. Good long stemmed Jacques do not bring over $6 to $8, and more are sold at $2 to $3. American Beauties and other large roses are very plenty; an order for these in quantity at $10 per hundred for best stock would be eagerly gathered in. Brunner is the only large rose that is selling. Harrisii lilies are offered as low as $2 to $4 per hundred. Mignonette, smilax and asparagus continue badly overstocked.

The regular April meeting of the Florists' Club was held in the Elks' Rooms, 19 West 27th Street on Monday evening, 9th inst.

The new quarters proved to be very homelike and comfortable and much satisfaction was expressed when it was announced that the executive committee had secured the rooms for two evenings a month for a year.

The matter of holding a fall exhibition was discussed and finally referred to the executive committee with full power to act.

Messrs. Rath, Burns, Steffins, Storm and Weathered were appointed a committee to make all arrangements for the comfort and transportation of the club on the occasion of the convention at Atlantic City next August.

The question of making the meetings more attractive socially to the members was discussed and an entertainment committee consisting of Messrs. Wells, Weathered and Sheridan was constituted to make suitable provision in this line for the future. It was also announced that a prominent member of the club had expressed a willingness to revive the series of smokers, which were at one time so successful as social adjuncts to the club's more serious work.

Messrs. Weathered, De la Mare and Stewart were appointed a committee to draw up appropriate resolutions on the death of Mr. Thomas L. Russell.

At the monthly meeting of the Farmer's Club of the American Institute on Tuesday, April 3rd, there was an attractive display of decorative foliage and flowering plants. Dr. F. M. Hexamer presided, and Mr. C. L. Allen made interesting remarks upon the selection and cultivation of garden flowers. Mr. Nicholas Hallock spoke in commendation of the remarkable progress which was being made in the development and cultivation of the carnation.

A young man in the employ of Peter Henderson & Co., accidentally fell down an elevator well at the Cortland St. store last Saturday and was so badly injured that his recovery is doubtful.

Boston.

The spurt of activity which followed Easter proved to be short lived and the

week just passed has been generally very dull. One thing, however, has saved it from entire disaster; that is the unusual quantity of funeral work that has been called for, not from one or two establishments but well distributed among the whole number. Designs of all styles have been the rule and it is plain that for funeral purposes at least made up designs still retain their popularity. Prices of all varieties of cut flowers have dropped considerably during the week and there is an abundance of all kinds of seasonable stock in the market, of generally excellent quality. Among the novelties seen are some very fine ranunculuses of which C. Southworth is bringing in a fair quantity, in a variety of bright colors.

At the April meeting of the Massachusetts Horticultural Society notice was given of the presentation to the society by the children of the late E. H. Hitchings, Mr. Hitchings, herbarium of native orchids. The gift was accepted as a fitting memorial of one who had been held in high esteem and a vote providing for its proper preservation was unanimously passed.

On the tables there was a small but interesting exhibition of flowers and plants. That which attracted most attention was a display of a new hybrid primrose raised by T. D. Hatfield. This primrose resembles in foliage, habit, color and fragrance the common English primrose, with the difference that it is of much more robust growth, and the flowers are very much larger measuring on an average full two inches across. The color is lemon with deep orange in the center. It has been named Mrs. E. M. Gill in compliment to a very popular member of the society, and it is whispered that this lady contemplates giving it an appropriate christening at an early date.

Prunus Davidiana, mentioned in previous years as blooming far ahead of all other spring flowering shrubs, is minus flowers this season, the blossom buds having been completely killed in the recent severe freeze.

Chicago.

Last week's business fell short of expectations. Starting in briskly Monday and giving promise of a profitable trade for the week, the demand fell off suddenly towards the middle of the week and was spasmodic to the end.

Stock has been quite plentiful in most lines, roses in particular; these threatened to become a glut, but a steady shipping demand served greatly to avoid a break in prices. Few changes in quotations are noted. Brides dropped from 5 and 6 to 4 and 5. The balance of the rose list remains the same as last week. Beauties are somewhat improving in general quality and the cut is increasing, but good stock is still insufficient for the demand. The same holds as regards hybrids. Of the latter P. Stielow of Niles Centre is bringing in some very fine Baroness Rothschild. Jacques are in supply about equal to demand and are of average good quality; some few lots indeed are extra good. La France is plenty. Most of the stock offered is of medium size, clean and salable blooms and of good color. Here and there a lot of extra size and quality is noted. There is a wide range in prices for this sort, from 3 to 5 for fair stock to 7 to 8 for extra choice.

In carnations there is still a scarcity in white; these command from 25 to 50 cents per 100 more than colored sorts. The latter are plentiful enough. Portia in particular is offered in large quantity, with Tidal Wave a close second. Very few fancy sorts are offered. Daybreak is about the only variety in this class that is sent in in any quantity. Of these some choice blooms are noted which find a brisk demand at $2.

Very little bulbous stock is seen on the market. Many growers report being cut out entirely; still prices have not advanced any. Valley is in good demand; the supply offered is limited and sold out clean every day.

Violets are very scarce, the supply being far short of the demand and quality very inferior.

C. A. Samuelson opened up his new store in the Lexington Hotel, 2129 Michigan avenue, on Monday last. Mr. S. intends to pay more attention to the plant trade in the future, and as his new quarters are roomy and well lighted they are well fitted for the purpose.

Klunder has moved a few doors south and is now located at 2124 Michigan avenue.

Further changes around 22nd street and Michigan avenue will be made by May 1, which will concentrate the business of this locality practically in one block.

Blaumeiser Bros. of Niles Centre are opening a retail establishment at 745 Wells street, with an entrance also at 8 Lincoln avenue.

A meeting of the directors of the Chicago Cut Flower Exchange was held Monday, April 9. The meeting opened with President Rudd in the chair, 8 members being present. The question of ways and means to carry on the Exchange, involving the future prospects and success of the enterprise was thoroughly discussed, but it was soon discovered that the directory was hopelessly divided on some of the vital points. The majority of the members were in favor of continuing business, but the modus operandi proved the rock which foundered an enterprise springing into existence a year and a half ago with every promise of a profitable and successful future.

The first vote was taken on a motion to run a commission establishment by the management in conjunction with the exchange. The motion was lost, 3 members voting for and 5 against the proposition. The next vote taken was on a motion to continue business, excluding the commission feature, which also was lost by a vote of 2 for and 6 against, thus sounding the death knell of the association.

A meeting of stockholders is called for 10 a. m. Friday, April 13, for the purpose of winding up the affairs of the corporation. It is hoped that every member who is unable to attend in person will send his proxy, as it takes a two-thirds vote to accomplish the purpose. There is still a possibility of the stockholders rescinding the action of the directory, but such a step seems hardly probable, since many of the growers for whose benefit more than any other interests the exchange was started have been rather lukewarm in their support from the very beginning.

Mr. P. Vos, of P. Vos & Co., Sassenheim, Holland, is in town.

Henry Hammes and wife have gone to California on a pleasure trip.

DO YOU WANT a complete alphabetical list of roses in commerce in America up to date, with class, name of introducer, date of introduction, and brief, accurate description of each? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

Philadelphia.

The new city council convened on Monday, April 2, and this occasion was made memorable by a great display of flowers. Every member's desk was graced with at least one basket or bouquet, while some new members and others who had only barely succeeded in being re-elected after a hard battle were the recipients of numerous and in some cases immense pieces of most wonderful construction. The most popular form was the horseshoe, and one member who could not occupy his seat on account of the floral pieces piled on it stood in the aisle under a horseshoe seven feet in height. It is to be hoped the refining influence of this wealth of flowers may make itself felt in the legislation of the coming session.

The plans looking to the rebuilding of Horticultural Hall are now getting into shape. A proposition, which has the indorsement of quite a number of the wealthy members of the society, in so much that they have agreed to raise $150,000, calls for the business interests to provide $50,000, and this amount it is expected will be sufficient to erect something magnificent. Whether these large sums of money will be raised is hard to say, but it does seem as if something beneficial to the society will be the result if earnest efforts are made to secure the necessary capital.

Some of the fakirs are not satisfied with getting their stock cheap and at times for almost nothing. They want to be like the fellow that could sell his brooms cheaper than his competitor who stole the material and made them, because he stole them ready made. So a select few have been making visits to nurseries in the suburbs in the shades of evening when their chocolate colored skin (they were all colored) was not so noticeable. Messrs. Chas. Menke, Dennison Bros., J. G. Eisele, Hugh Graham and S. S. Pennock have each in turn suffered by these midnight visitors, who do more damage by reason of the stock destroyed than that carried away. They have been captured, however, and one of them (there were three in all) making a confession which implicated the others, they are likely soon to be placed where they will not bother the growers for some time.

Business has been moving lively the past week, although it is evident that flowers are more plentiful and there is not that eager rush for stock that was such a joyful sight to the growers a week ago. Prices for roses are about the same as last week, but with a falling tendency, as a special offer on a job lot is eagerly entertained by the grower. The quality keeps up very well, although the Brunners are beginning to have an off-crop appearance. Mr. Lonsdale has had some moss clusters which were very pretty, but says they do not bring enough to make them a profitable crop.

Carnation stocks seem to be growing, as orders were more easily filled the past week, but $2 is still low for anything salable, while $2.50 to $3 is asked for selected flowers. Sweet peas are becoming more abundant and better, but $2 is still asked for common and $3 for choice stock. There are still a great many lilies about and almost any price is asked for them, no reasonable offer being refused.

The last meeting of the Florists' Club, April 3, was very well attended. The paper on "Advantages of hot water under pressure over steam," to be read by Mr. Eisele, was not forthcoming, as that gentleman in a letter to the secretary said that the pressure of spring business was



BUNCH OF MIXED FLOWERS FOR A VASE.

ARRANGEMENT OF FLOWERS.

so much greater than the pressure of hot water that he was compelled to postpone the subject for a later meeting. Mr. J. Westcott is to prepare a paper for the next meeting on how best to entertain the delegates to the convention in August. This is Mr. Westcott's particular line and no doubt he will map out a program that will give all the members a part to their liking in helping to make everybody feel at home during their stay.

Mr. J. L. Dillon of Bloomsburg had a vase of fine carnations on exhibition, seedlings and sports; a large full flower with good stems and fine dark crimson color, a sport from Unique, looked well, as did several pink varieties, all having good solid flowers and long, stout stems.

George Anderson is in luck again. It is a girl; this makes nine. Nine fine healthy girls! Of course this means nine sons-in-law. George will be quite a father some of these days. K.

Buffalo.

The weather since Easter has been more wintry than the greater part of March, which has somewhat hurt the sale of plants, but several weddings and social events have kept all hands moderately busy. There is not any surplus of flowers noticeable. Roses of all kinds when good are readily sold. Carnations are getting the most plentiful. Tulips and daffs are very fine just now and if they don't bring midwinter prices there is a good demand for them.

The most important floral event since Easter was the marriage of one of that numerous family of Smiths. The decorations, both at the church and at the house, were very beautiful and were well taken care of by Messrs. Adams & Nolan, "the hustlers."

This is a pretty good city for summer plants used in many ways and now that the Easter stock is gone the chief plant men, Christenson, Milley, Scott, Rebstock, Belsey and others, are in a terrible haste. If you are lucky enough to get a view of them outside their houses, they are rushing along as if pursued by a swarm of hornets and if prevailed upon to stop an instant and drown a few of the imaginary beasts have little time for any superfluous chat.

Professor Cowell finished a course of botanical lectures last week which he has given before the Woman Teachers' Association. His "talks" have been most comprehensive, including many branches of this fascinating study. The lectures have been widely appreciated by hundreds other than those for whom they were especially intended. It is not every city that can lay claim to such a thorough botanist as "our professor."

We had a very pleasant surprise last Friday in the visit of Peter Crowe, of Utica, who came to Buffalo to meet Mr. Charles Erhardt of Erie St., Cleveland. They looked over the stores and then in company with three or four of our veterans took in the silver dollar bowling alley and several other innocent amusements which generally come to the front wherever two or three discreet florists are congregated together. Mr. Erhardt expressed himself as having had the finest evening of his life and was surprised at the fraternal feeling shown among the florists here. He said it was entirely different in his town. Perhaps he is mistaken about it. We hope so. He is certainly a lively young man and timothy won't attain a great height where he is holding forth. W. S.

OBITUARY.

A. LAUER.

Mr. A. Lauer, the well known florist of Louisville, Ky., died last week. Mr. Lauer was born in Germany. He came to America 32 years ago. He originally studied for the ministry but finally became engaged in floriculture. He was an active business man in Louisville and was quite successful. His establishment was opposite Cave Hill Cemetery, where he did an extensive business, especially cemetery work. Mr. Lauer was well liked by all in the trade and was always foremost in any project looking to the advancement of the profession. He was conscientious and painstaking and was considered one of our most successful florists. For the past six months he has been confined to his home as the result of injuries received in a street car accident, and these injuries probably hastened his death.

His remains were laid away in Cave Hill Cemetery, the funeral being attended by the florists of Louisville in a body, who thus paid their last respects to one who will be greatly missed in the profession.

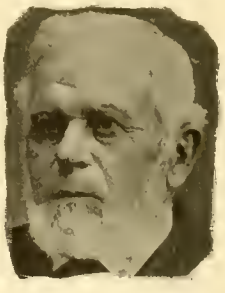
Mr. Lauer leaves a widow and an invalid son to mourn the loss of a good husband and father.

It is not likely that his family will continue the business as his widow has no knowledge of the business, and her time is fully taken up in attendance at the bedside of her invalid son. N. & N.

PAUL BUTZ.

Paul Butz, senior member of the firm of Paul Butz & Son, New Castle, Pa., died April 5, aged nearly 73 years. He had been ill for some time and the end was not unlooked for.

Paul Butz was born April 30th, 1821, in the city of Basle, Switzerland. The



THE LATE PAUL BUTZ.

greater part of his youth was spent in traveling in Italy, Germany and France. While in Paris he learned the florist's art to which he devoted all his subsequent life. In 1851 he came to America, and after remaining for a year in Pittsburg, removed to New Castle, purchased several acres of land and laid the foundation of the business which has since grown to

such an extent. In 1852 he was united in marriage to Miss Margaret Wiegand, who survives him. Twelve children, all of whom are now living, blessed their union. The sons are Wm. T., a member of the firm of Paul Butz & Son, florists; John M., who is in the employ of the Pennsylvania Company; Frank P., with the Western Electric Works, of Chicago; George C., professor of horticulture and botany at the Pennsylvania State College; Albert E., a student at Curry Institute; Harry A. a student at the New Castle High School. The daughters are the Misses Maggie, Effie R., Rose S., Emma C., Mary A., and Carrie. The deceased had a number of relatives residing in various parts of the United States, four of whom, three nephews and a niece reside in Pittsburg.

Mr. Butz was a member of the first city council of New Castle, remaining in office for four years. For a quarter of century he has been a Mason.

He was a man upright in all his business relations, and enjoyed the confidence and respect of all who knew him. His business ability, as attested by his chosen line, was excellent. He was a loving husband and the best of fathers.

News Notes.

ROCKLAND, MASS.—Mr. E. P. Fullerton of Whitman has opened a florist store in this town.

MISSOULA, MONT.—E. C. Eyl has sold his florist business to Mrs. Wm. Neill and has left this place.

DAYTON, OHIO.—Dayton florists are well pleased over their Easter trade, cut flowers and pot plants selling equally well.

SAN FRANCISCO.—Easter trade varied but little from that of last year. The only noticeable change was an increased call for Bermudas and orchids.

FT. SCOTT, KANS.—The 9 year old son of W. P. and Alma S. Patterson, the florist, accidentally shot and killed himself April 3. Mr. and Mrs. Patterson have the sympathy of their friends in the trade in their affliction.

LEXINGTON, KY.—W. S. Ball has just finished a very fine house 23x120. Jno. A. Keller has added another new house to his range, 21½x103. Mrs. D. Honaker has just completed two new houses, 30x150 and 20x90 respectively.

SPRINGFIELD, O.—Charles A. Reeser, president of the City Council and leading florist, assigned to Albert H. Kunkle, city solicitor, for benefit of creditors. His liabilities are estimated at $23,000; assets, $15,000. The assignment is due to the hard times.

WEST GARDNER, MASS.—Easter trade was considerably larger than last year. Harrisii lilies in pots sold well, also cut spikes of Harrisii and candidum. Roses, carnations, pansies, and mignonette were all in good demand but the supply was sufficient for all.

SARATOGA SPRINGS, N. Y.—A good increase. Larger demand for carnations and lilies. The calls for azaleas and hyacinths were also large. John Ralph's display was described at length in the *Daily Saratogian* and mention was also made of that by T. J. Totten.

OTTAWA, CANADA.—Easter trade was about 20% larger than last year, but prices were lower. Supply not quite equal to demand. Quality superior. Home production much larger, hence bought less. Not half enough violets. Increase in plant trade. Not enough Harrisii.

LOUISVILLE, KY.—Mr. Jacob Schulz is just putting the finishing touch on three magnificent new houses, all built after the new plan, short span to the south, using best cedar and cypress for material and 16x24 glass. The houses are 18x140. Mr. Geo. Schulz has also been building, putting in two new houses 11x104. J. N. Struck and Bro. are the builders.

OAKLAND, CAL.—Easter trade was about 60% larger than last year. Prices about the same. Supply short. Quality good. Bought more and sold at a profit. Increased call for Bermudas and callas. In view of the general depression in other lines of business we think the demand was remarkable. The supply of most flowers was about the same as last year. Lilies were more forward and consequently more plentiful, yet there were not enough to meet the demand.

GRAND RAPIDS, MICH.—A slight decrease with individual florists, owing probably to the increased number of those in the business. Prices ruled about 30% lower than last year. Supply was fully equal to demand, of many things there was a surplus. Quality superior. Increased call for carnations on account of their being of extra quality and cheap in price. Spiræa could not be sold and azaleas were a drug even at wholesale prices. Callas would not sell at all. There was plenty of nearly everything.

MANCHESTER, N. H.—With an experience of ten years in this city the writer has never seen such a demand for flowers as was experienced during Easter week. The biggest sale was for lilies, longflorum being the favorite and Harrisi coming next. Candidums were in poor demand and are plainly a thing of the past. A large proportion of the lilies sold were in pots. The rush for white carnations on Friday and Saturday was unprecedented and on Saturday afternoon it was impossible to supply the demand from any source. Prices are as follows: Longiflorums 25c., Harrisii 20c., candidums 10c., carnations $5 per hundred, roses from $15 to $40 per hundred.

ROOTED CUTTINGS. Per 100

Alternantheras, Versicolor, Rosea nana, Aurea nana and P. Major	$.50
Coleus of sorts, mixed	.50
" best new and old, named	1.00
Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00

PLANTS.

Alternantheras, P. major, Aurea nana, Tricolor (Rosea nana), Versicolor	2.50
Plumbago, Capensis and Alba	4.00
" Lady Larpent's	4.00
Perennial Phlox, fine assorted, $6.00 and	4.00
Achillea "The Pearl"	4.00
Bugonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't, $3.00 and	4.00
Abutilons, assorted	4.00
Echeveria glauca, $2.00 and	3.00
Extensa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted, $2.00 and	3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Anthericum picturatum, per dozen, 75c.	
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00
Silver Leaf Geraniums, 3 varieties (no Mme. Salleroi)	4.00
Oxalis, Ortgiesi	4.00
Dahlias, named, our selection	5.00
French Cannas, named, our selection, dry roots	5.00
French Cannas, unnamed	3.00
" " potted	10.00
Fancy Leaf Caladium, fine mixed	6.00
" " " named	8.00

Trade list on application.

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.

EXTRA STRONG, WELL ROOTED
MARIE LOUISE VIOLETS.
Now Ready. $5.00 per 1000; 90c. per 100.
MISS P. A. BAKER, Media, Pa.

50,000 Dwarf French CANNAS.

We offer the above quantity in strong, well established plants from 3 and 4 inch pots. This stock must not be confounded with dormant pieces or freshly divided plants out of benches.

We list here only the principal varieties of which we have a large supply. For a general list refer to our Spring Trade List which describes over seventy-five varieties, including all the desirable novelties of the season, including the grand New German variety, Konigin Charlotte:

	Per 100
Madame Crozy	$10.00
Alphonse Bouvier	10 00
Paul Marquant	10.00
Capt. P. de Suzzoni	15 00
Florence Vaughan	25.00
Charles Henderson	25.00
Paul Bruant	20.00
Admiral Gervais	15.00
Comtesse de L'Estoile	15.00
Chas. Dippe	15.00
Cronstadt	15 00
Denil de St. Grevy	15.00
Explorateur Crampbel	15.00
Gustav Senneholz (true) distinct	15.00
Maurice Mussy	15.00
Martin Cahuzac	15.00
Marquise Arthur de L'Aigle	10.00
Nardy Pere	15 00
Professor Gerard	15.00
Secretary Stewart	15 00
Stadtgartner Senneholz	15 00
Antoine Crozy	8 00
Admiral Courbet	8.00
Antoine Chantin	8.00
Baronne de Sandrans	10 00
Baronne de Renowardy	8 00
Comte Horace de Choiseuil	10 00
Duchess de Montenard	12.00
E. Chevreul	12.00
Enfant du Rhone	10 00
Edward Michel	12.00
Francois Maire	12.00
Geoffroy St. Hilaire	8 00
J. Thomayer	20.00
Miss Sarah Hill	15 00
Mr. Cleveland	15 00
Mlle. Liabaud	12.00
Nelly Bowden	8.00
Princess Lusignani	12.00
Perfection	15.00
Souvenir de Jeanne Charreton	8 00
Statuaire Fulconis	8.00
Trocadero	8.00
Ventura	8 00
Viticulteur Gaillard	8.00
Kaiser Wilhelm	8.00

We will furnish one each of the above varieties, 46 plants for $5.50.

Among Crozy's New Cannas of this season Paul Sigrist is undoubtedly the most distinct and striking novelty. We are the only American house offering this variety to the trade this season. In general habit similar to Mme. Crozy, but of a bright crimson color nearly as rich as Alphonse Bouvier with a very broad golden yellow border. Stock limited, $2.50 each.

HENRY A. DREER,
PHILADELPHIA, PA.
Mention American Florist.

Pansies.

Fine plants of best strain, just coming into bloom, $15.00 per 1000.

J. T. ANTHONY,
2205 Michigan Ave., CHICAGO.

ROOTED CUTTINGS OF ROSES.
Healthy, large and finely rooted Brides, Mermets and Gontiers, at $1.10 per hundred.
Free by mail. Cash with order.
J. J. LAMPERT, Xenia, Ohio.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By experienced florist and gardener. Address H. HAY, care Mr. Nicolaus, 6023 Ave. B. Parkside, Chicago, Ill.

SITUATION WANTED—First-class designer and decorator, expert in cut flower work
DECORATOR, care American Florist.

SITUATION WANTED—To take charge by a first-class florist, practical in all branches; age 32.
Box 2655, Fairmount Station, Phila., Pa.

SITUATION WANTED—Young man on private or commercial place, practical worker, 15 years' experience; references. FLORIST, care Am. Florist.

SITUATION WANTED—By first-class assistant florist, 7 years' experience, references; central or east preferred. Address M, care Am. Florist.

SITUATION WANTED—Assistant for greenhouse work generally; good designer and bedder, 12 years' experience; state salary.
ABILITY, care American Florist.

SITUATION WANTED—By gardener and florist; cut flowers, graperies, vegetables and mushrooms; commercial or private; age 32, married
E, care American Florist, Chicago.

SITUATION WANTED—By practical rose grower and propagator. At in forcing roses for bloom, design work thoroughly reliable; a worker; steady place desired; first-class references. Address
R. care American Florist.

SITUATION WANTED—In good commercial or private place by single middle aged florist and gardener (Swiss); well up in greenhouse business and outdoor work, good propagator.; good references. Address FLORIST. 5451 Lake Ave., Chicago.

SITUATION WANTED—By reliable single man as foreman or to take charge of a department; 15 years' experience, wholesale and retail; good propagator and grower of cut flowers, ferns, palms and general florists' stock; responsible position 3 years, good references. Address
EASTERN, Steinway P. O., L. I.

SITUATION WANTED—By a German florist, aged 22, with experience of 8 years besides youth. Good rose, carnation and general plant grower. Also good and quick designer. Can speak, read and write English well. Able to take charge of private or commercial place. Please state particulars and wages.
CLEM WONNEMANN, 458 Milwaukee Ave., Chicago.

WANTED—Nicholson's Dictionary of Gardening, second hand. Address
DICTIONARY, care American Florist.

WANTED—A first-class florist, salesman and maker-up. When applying state wages expected and give references JOHN RECK, Bridgeport, Conn.

WANTED—A temperate man familiar with the growing of carnations, mums and a general assortment of soft stock. No bums wanted. Address with references, L. L. MAY & Co., St. Paul, Minn.

WANTED—To purchase florist establishment adapted to cut flower growing for the market; a location in eastern New England preferred. Address
A, care Eastern Office American Florist,
67 Bromfield St., Boston.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man.
WILFRED A. BROTHERTON, Rochester, Mich.

FOR SALE CHEAP—Large second-hand florist's Ice Box value about $75. VAUGHAN'S SEED STORE,
88 State Street, Chicago.

FOR SALE OR TO LET—A valuable florist business. For particulars address
JACOB MENDEL, Lock Box 59, Nyack, N. Y.

FOR SALE—One Kroeschell hot water boiler 4x12; 4 years in use. Also about 4000 feet 4-inch pipe.
ART FLORAL CO., 3911 Cottage Grove Ave., Chicago

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE,
146 & 148 West Washington St., Chicago.

FOR SALE—A bargain, a greenhouse and business in a thriving town of over 4,000 in central part of Indiana. No practical florist within 20 miles. Excellent reasons for selling. Address
A B L, care American Florist.

FOR SALE—Store well stocked, together with 4,000 feet glass, heated by steam, well stocked two spring wagons, two horses and all modern conveniences; price $4,000, three-fourths cash. Apply
JOHN SCHNEIDER,
921½ Walnut St., Kansas City, Mo.

FOR SALE—From one to fifteen acres of land with southern slope, one block from depot at Valley Park, a suburb of St. Louis. A very suitable location for a florist growing cut flowers for St. Louis market. Twelve trains each way daily. Two express companies. Plenty of water. Price low. Terms easy. For further information address
E. H. MICHEL, St. Louis, Mo.

GREAT SALE OF FLORISTS' ORCHIDS FROM SANDER & CO., St. Albans, England.

Over two thousand plants, all in best possible condition, of many useful varieties including one thousand **CATTLEYA LABIATA,** this grand Cattleya thrives and blooms freely suspended from roof of palm house. The above will be sold at

RÖLKER'S AUCTION ROOMS, 205 Greenwich St., New York.

THURSDAY, APRIL 19, 11 A. M. Wire for Illustrated Catalogue.

FOR SALE—A thriving florist's business in a growing town of 6,000 inhabitants in central Missouri. The only florist's establishment there. Two greenhouses, 3 acres of land and a handsome residence. Annual net profits $2,000, and can be greatly increased, Price $8,000. Owner's health is bad and he must leave before another winter. For further particulars address E. H. MICHEL, St. Louis, Mo.

FOR SALE OR TO LET—A suitable place for a florist or market gardener, consisting of 5¼ acres good land, cottage of eight rooms with dry cellar, also barn. Greenhouse 80x14, heated by Weathered hot water apparatus all in good order. Finest market in the world for disposing of all produce, both in summer and winter. The property is situated quite close to the city of Newport, R. I. For terms, prices, etc., address A. PRESCOTT BAKER, Bellevue Ave., Newport, R. I.

WANTED.

General nursery foreman of long and varied experience. Must be practical and successful in the growing of flowers for market and a first-class fern, palm and general plant grower. Apply with references, which must be A1,
SUNSET, care American Florist.

A RARE CHANCE FOR INVESTMENT
FOR SALE.

Columbia Farm, containing over 20 acres arable and grazing land, climate one of the finest in the world. Frost and malaria unknown. Lilies, narcissus and amaryllis grown in open ground throughout the winter. Enough Harrisii and other Bulbs will be furnished to stock the farm, so that new proprietor can enter at once into business, which should be started not later than August next. Our Harrisii Bulbs have a world wide reputation, and a good practical manager can secure handsome profits. Sold because other business claims my attention. Communicate with
R. H. JAMES, Proprietor, St. Georges, Bermuda.

THE DIRECTORY
FOR 1894
IS NOW READY.
PRICE $2.
AM. FLORIST CO.

We Pay the Express.
GERANIUMS.

We will offer for the next two weeks, strong, bushy plants in bud, ready for the spring trade

Double Geraniums, mixed varieties, consisting of scarlet, white, pink, crimson and salmon, 3-inch	$5.00 per 100; 4-inch $7.00 per 100
Fevertew Gem, 2¼-inch $2 50; 4-inch	6.00 "
Golden Marguerite, 3-inch	4.00 "
Double Fringed Petunias, 10 vars., 3-inch	5.00 "
Fuchsias, 3-inch	5.00 "
Ageratums, 4-inch	5.00 "
Begonias, 4 varieties, 3-inch	4.00 "
New Golden Queen Lobelia, 3 to 3½-inch, $1.00 per doz.	

All the above delivered free by Express on receipt of price.

S. WHITTON & SONS, Wholesale Florists,
9 & 11 Roberts Street, UTICA, N. Y.
Mention American Florist.

Auction Sale
OF
Dwarf Low Budded Roses, Etc.
AT STORE,
104 Pearl Street, BOSTON,
AT 10 A. M.,
Wednesday, April 18.

PLANT SALES

Every Wednesday and Saturday till June. Send for catalogue.

EDWARD HATCH, Auctioneer.

Rooted Cuttings.

COLEUS, 10 kinds by mail	60c per 100
" 12 kinds by express	$4.00 per 1000
VERSCHAFFELTII and SHELLY YELLOW	$5.00 per 1000
ALTERNANTHERA P. Major and Aurea Nana, by mail	50c per 100
CUPHEA (cigar plant), by mail	50c per 100
PILEA (artillery plant), by mail	50c per 100
FUCHSIA, mixed	$1.00 per 100

CASH WITH ORDER.

S. O. STREBY,
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READ THIS.

FELTHOUSEN, the COLEUS SPECIALIST, has at least

100,000 PANSIES, in the seed bed, at $2.00 per 1000, and about 50,000 transplanted in flats, at $4.00 per 1000.

ROOTED CUTTINGS of COLEUS, your selection, $6.00 per 1000. Our selection, $5.00 per 1000.

FUCHSIAS, leading sorts, rooted cuttings $1.00 per 100.

HELIOTROPE, 4 varieties, $1.00 per 100.

SALVIAS or SWEET SAGE, $1.00 per 100.

Cash must in all cases accompany the order.

J. E. FELTHOUSEN,
370 Van Vranken Ave., SCHENECTADY, N. Y.

Lady Hume Campbell.

EVERYBODY WANTS A HEALTHY VIOLET.

This stock has never been diseased. Rea[dy] delivery May 1, at $3.00 per hund[red], $25.00 per thousand.

—THE ORIGINAL STO[CK]

H. HUEBNER, Grotor

St. Louis.

Trade for the past week has been fair. The supply has developed a tendency to break the market, but as yet no demoralization in prices has occurred. Home plant trade still continues poor, while the shipping has also fallen off considerably as a result of the recent cold wave. W. Ellison has been receiving lately some very fine Hinze's and Portia carnations from Swan Peterson, the stems are remarkably long and stiff; the peculiarity about this stock is that when received it appears never to have been placed in water, although not at all wilted; the flowers are about half blown and not very large, but upon being placed in water for twelve hours or so they open up remarkably and rank way up ahead. Some fine Buttercup and Chester Pride, have also been coming in from J. F. Amman; the Buttercup are exceptionally fine and come a bright clear yellow. For the first time this season the fakir has made his appearance upon the streets. R. F. T.

Counting Lily Blooms on the Plant.

There seems to have been considerable misunderstanding and more or less complaint this season from various sources regarding the methods adopted by many lily growers at Easter in counting lily blooms. Whether all the buds on a stalk, regardless of their stage of development, should be reckoned the same as opened flowers or whether all those buds which are ready to burst should be so counted, the small green ones being reckoned at a lower price or left out of consideration altogether, is a question upon which it would seem desirable to have a general agreement, so that growers may have a uniform method, and buyers know just what they have a right to expect. We should be glad to have an expression of opinion from those interested in the matter and our columns are open to any who desire to participate in the discussion.

2 1-2 Cent ROSES.

200,000 from 2½-inch pots, at $25 per 1000; $3 per 100.

STRICTLY OUR SELECTION. Cash with Order.

50,000 from 4-inch pots, at $60 per 1000; $7 per 100.

VARIETIES IN STOCK.

HYBRIDS—M. Baumann, Black Prince, Alfred Colomb, F. De Lesseps, De Graw, Dufferin, Edinburgh, Holmes, Giant of Battles, Lefebvre, Lyonnaise, Prince Arthur, E. Verdier, E. Fuerst.

HYBRID TEAS—Weilshott, Meteor, Pink Rover, La France, White La France, Albany, Wootton

TEAS—Bravy, Gontier, Golden Gate, Mermet, Brides, Passot, President, Rubens, Anna Ollivier, Perle, Sunset, Schwarz, Watteville, Hoste, Salviati, Safrano, Waban.

CLIMBERS—Baltimore Belle, Seven Sisters, Tennessee Belle, Gustave Gossard, Marechal Niel, Solfaterre, Devoniensis, Lamarque, Perle, Richardson.

Also Quern's Scarlet, Hermosa, Soupert, Chatelard, Pernet, Kuster, Mignonette and other varieties.

Quality of stock guaranteed. Personal Inspection invited. Send for quotation on your own selection.

THE NATIONAL PLANT CO.,
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In Boston, in 1890, Honorable Mention was awarded.
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At Washington, D. C., in August, 1892, the highest award this Society offers was given, viz.: A CERTIFICATE OF MERIT.

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ROSES.

	Per 100.
Am. Beauties,	$6 00
Testout, -	6 00
Meteors, - -	3 50
Brides, - -	3 50

ROSES.

	Per 100.
La France, -	$3 50
Albany, -	3 50
Perles, - -	3 50
Mermets, -	3 50

Special discount on our Beauties on orders of 500 or over.

CARNATIONS, ROOTED CUTTINGS.

Daybreak	per 1000	$15.00
Tidal Wave	"	10.00
Silver Spray	"	10.00

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Brides, Bridesmaids, Perles, Met-ors, Hostes, From 2, 3 and 4-in. pots.

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Cusins, Beauties, Niphetos, Testouts, La France, Mermets,

Address for quotations T. W. STEMMLER, VILLA LORRAINE ROSERIES, Madison, N. J.

Sole Agents for U. S. for Chas. Mackintosh & Co., England, Inventors of Vulcanized India Rubber, Extra strong greenhouse hose to withstand high pressure. ¾-in., 3-ply, 15c. per foot in 60 feet lengths.

Roses Our Specialty.

200,000 READY NOW in best leading sorts from

	Per 100	Per 1000
2-inch pots	$ 3 00	$ 30.00
3 " "	5 00	45.00
4 " "	12.00	110.00
PANSIES, extra strain from boxes, once replanted		5.00
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PETUNIAS, dbl. fringed, 2-in. pots	4.00	35.00
VERBENAS, the very best	2.00	18 00
CARNATIONS leading sorts	4.00	35.00
FUCHSIAS, single and double	3.00	30.00
CHRYSANTHEMUMS, the very cream	3.00	25 00
" The Queen.	5.00	45.00
GERANIUMS, sgl. and dbl. extra sorts	3.00	30 00
COLEUS, named sorts	3 00	25 00
" Golden Bedder	4.00	35.00
" large lvd. seedlings from boxes	3.00	20.00

Hardy Perennials, Shrubs and Evergreens in quantity.

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Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

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Is Now Ready.

PRICE $2.00.

American Florist Co.

Exhausted.

All future orders for

MRS. W. C. WHITNEY

can only be booked to fill from May 1st and onward, as the demand has *exceeded my expectations.* All other stock can be filled at once.

JOHN N. MAY, Summit, N. J.

Mention American Florist.

Forcing Roses.

A stock of the best varieties always on hand.

M. A. HUNT, Terre Haute, Ind.

5,000 Jack Rose Plants,

ON THEIR OWN ROOTS.

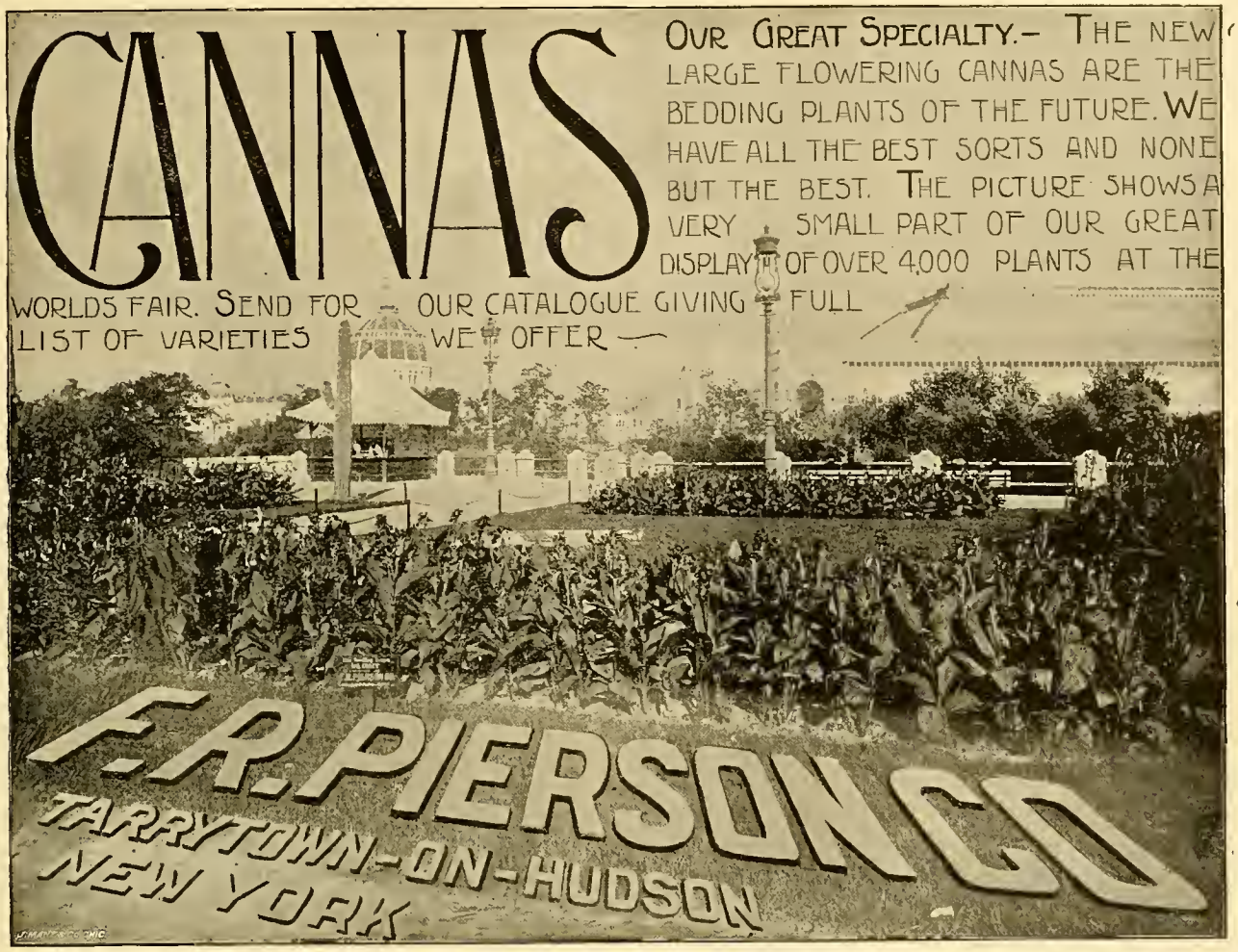
Well branched, 2½ to 3 feet high, $10 per 100. Sample of 8 for $1.00.

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SPECIAL OFFER to the TRADE

50,000 New Yellow Coleus

GOLDEN CROWN, the most hardy, strongest growing, highest colored yellow to date, 2-inch, well grown, $4 per 100; $35 per 1000; 250 at 1000 rates throughout.
10,000 in 12 other standard leading sorts, plants $1.50; rooted 70 cts. per 100.
10,000 Snow Crest Daisies, $3 per 100; $25 per 1000.
30,000 Mam. Verbenas, progressive type, none better.
5,000 of them Climaxers the Peerless crimson bedder.
10,000 seedlings from our XX and XXX progressive seed will give the most splendid new kinds, all perfectly clean and healthy, 3-inch, streng, fine, in bud, $2.50; flats $1.50 per 100, seedlings same rate; special rates per 1000.
5,000 Vgt. Vincas, extra fine, 3-inch $3; flats $1.50; rooted $1 per 100.
5,000 Giant Scabiosa Snowball, per 100 $1.50; seed, 25c. for large trade packet.
10,000 Gibson's sweet scented hybrid pansies, flats $1; frame $2 per 100; seed ¼ oz. 50c., ¼ oz. $1, ½ oz. $1.60.
5,000 Gem Feverfew, 5,000 Golden Marguerites, 5,000 Dwf. Lobellas, 5,000 Golden Feather and C. Gymnocarpa, the last two seedlings small pkts. $1.50, rooted cuttings 75c. per 100.
Double Petunias, Dreer's new '93 set and the Queen the best all round double white, rooted, named, labeled, $2 per 100.
Mexican Primrose, three novelties, named, rooted $1 per 100.
30,000 Enlalia Zebrina and Japonica, potting size $2.50 per 100.
5,000 Torenia Fournieri, seed pan 50 cts., from flats $1 per 100.
Lots of other good things. Write for what you want. Premium offer for every $5 order: We will put in free 6 Giant Neruna Verbena and 1 Golden Strand Coleus; doubled on every $10 order, and 1 Dak. Primrose, 1 pkt. Double Petunia and 1 pkt. Scabiosa snowball when desired. Price list free. Address, cash with order please.

J. C. GIBSON, Woodbury N. J.

BY THE THOUSAND.

Araucaria Excelsa and Glauca, Aspidistra, Palms, Phormiums, Bay Trees —crowns and pyramids of all sizes.

Packing free for cash with order.

The Nurseries, **JULES DE COCK,**
LEDEBERG, near Ghent, BELGIUM,
OFFERS AS SPECIALTIES:
Gloxinia, Bulb Begonias, extra varieties.

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Clematis Gen. Grant, or Crimson Jackmanii.

STRICTLY AN AMERICAN SEEDLING, and possessed of qualities not common to foreign grown sorts, namely extreme hardiness and vigor, flowers in racemes of great size, substance, and depth of color; color a maroon crimson changing to a deep purple in the old flowers, and lasting a long time, in several cases over a week in good condition after being cut. This variety will be highly prized when known, on account of its peculiar lasting qualities, and being so well adapted to our hot suns and dry atmosphere—practical florists will understand this.

Price, good plants, $1.00 Each; $9.00 per Dozen. Very strong plants, home-grown, $1.50 Each; $15.00 per Dozen.

P. S —Plants can be had of the undersigned, or of J. C. Vaughan, Chicago; or Phœnix Nursery Co., Bloomington, Ill.

CLEMATIS.

12 Choice leading kinds. Large flowering
Two years . . $3 per doz.; $22.50 per 100
Three years . . $4 " $30.00 "
DAISIES. —Snowflake and Snowcrest, distinct kinds, indispensable for spring sales, $2 per 100.

SMILAX SEEDLINGS,
from fall, 75 cents per 100; $6.00 per 1000.

F. A. BALLER, Bloomington, Ill.

THE ASSOCIATION FLORA,

BOSKOOP, HOLLAND.

NOW ON HAND IN NEW YORK:

CLEMATIS in sorts, 3 years	per 100	$25.00
SPIRÆA JAPONICA	"	4.00
DIELYTRA SPECTABILIS	"	4.00

Lilium speciosum, Pæonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9.00: Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

Big Bargains!

100,000 ALTERNANTHERA P. Major and A. Nana, at $5.00 per 1000. These were rooted last September, and are now in flats. They are worth twice as much as little pips just rooted.
10,000 Rooted Cutting of GERANIUMS, named, $1.00 per 100.
25,000 Seedling SMILAX, transplanted, $5 per 1000.
20,000 COLEUS, R. C., $5.00 per 1000.
3,000 FUCHSIAS. R. C., named, $1.00 per 100.
MOON VINE, $1.25 per 100.

Plants from 2¼-inch pots of the following, at $2.75 per 100: **Geraniums, Fuchsias, Verbenas, Lantanas, Petunias, Moon Vines.**

Smilax, $1.75 per 100. **Coleus and Alternanthera,** $2.25 per 100. **CARNATIONS—Daybreak,** $3.00 per 100; **Portia and Silver Spray,** $2.50 per 100. 10 cts. extra for Rooted Cuttings sent by mail.

SEND FOR PRICE LIST. TERMS CASH.

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Mention American Florist

The Boskoop, Holland, Nursery Association

OFFERS AT SPECIAL PRICES

Roses, Azaleas, Rhododendrons, Clematis, Etc.

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3 Coenties Slip, NEW YORK.

Marie Louise

VIOLET PLANTS

Taken from strong, healthy clumps, $5.00 per 1000. No disease in my house. Half cash with order, balance C. O. D.

JOSEPH MARKLE, Rhinebeck, N. Y.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Catalogues Received.

H. H. Berger & Co., San Francisco, trade list bulbs and plants; J. W. Manning, Reading, Mass., hardy plants; L. Van Waveren & Co., Hillegom, Holland, bulbs; Knepper & Van't Hof, Boskoop, Holland, plants, trees and shrubs; Sam'l C. Moon, Morrisville, Pa., nursery stock; C. W. Talbot, Nevada, Mo., plants; R. Douglas & Son, Waukegan, Ill., hardy ornamental evergreens; E. H. Hunt, Chicago, trade list seeds, bulbs and florists' supplies.

WE HAVE RECEIVED from Mr. F. J. Ulbricht, Anniston, Ala., blooms of the so-called bridal rose, evidently a double flowered rubus or bramble. The flowers are snowy white, very double, and the size of Clotbilde Soupert rose; a very pretty thing. Our correspondent writes that it produces an enormous crop of flowers, and is very useful in design work. If kept in shape plants of this should force very nicely for Easter.

DO YOU WANT a list of trade organizations, both national and local, with names and addresses of principal officers, time and place of meetings and other information? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

DO YOU WANT a complete alphabetical list of carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

Begonias.

	Per 100
Argenlea Guttata, Vernon, Dewdrop, Lesseps, and other	$3 00
Flowering varieties	6 00
Paul Bruant, 3 in. 8 cts. each; 2½ in	5 00
Rex, in variety	2 50
COLEUS, in variety, per 1000, $20.00	3 50
Moon Vine, (I. Noctiphyton)	3 00
COBÆA Scandens	3 60
Geraniums, none but the best varieties, per 100, $2.50	6 00
Happy Thought, Mt. of Snow and Bronze	6 00
Mrs. Pollock	4 00
Ampelopsis Veitchii, 1½ to 3 feet	3 50
Tricolor, strong 2 in.	2 50
Chrysanthemums, leading varieties, per 100, $2.00	3 00
Lemon Verbena, strong	3 50
Alternanthera, 3 varieties, strong, 2 inch	2 50
Achillea The Pearl, strong, 2 inch	

Roses.

Hardy Climbers, 1½ in	3 00
H. P., 1½ in.	3 50

Carnations.

Rooted Cuttings, leading varieties, healthy, per 100, $10.00	1 25
HELIOTROPE, 4 varieties	2 50

THOS. A. McBETH & CO., Springfield, Ohio.

Mention American Florist.

Watch for our Adv. next week.

CORBREY & McKELLAR,

Wholesale and Commission Florists,

Phone Main 4508. **45 Lake Street, CHICAGO.**

We are prepared to fill your orders with First-Class Flowers. Give us a trial order.

TWO HUNDRED THOUSAND

Sold past season.

KELSEY'S SOUTHERN GALAX LEAVES.

Every Florist should have stock. Will keep three months. Takes the place of Ivy leaves. PRICE $2.00 per Thousand.

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FOR DECORATING, NOTHING CAN EQUAL

ASPARAGUS PLUMOSUS NANUS.

CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.

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Must be Sold. . . .

5,000,000 HARDY CUT FERNS.

Price to suit the times.

SPHAGNUM MOSS in quantity, 50 cents per bbl.

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SUCCESSOR TO

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Successors to WM. J. STEWART,

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and Florists' Supplies.

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New England Agent for the GREAT ANTIPEST.

H. L. SUNDERBRUCH,

Wholesale Florist

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DAN'L B. LONG,

WHOLESALE CUT FLOWERS,

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OTHER SPECIALTIES:

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FOR 1894

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SEEDS, BULBS AND ALL FLORISTS' SUPPLIES.

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Special attention given to shipping orders.

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WHOLESALE GROWERS OF

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Tel. Main 4786. Consignments Solicited.

N. F. McCarthy & Co.

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JOBBERS IN FLORISTS' SUPPLIES,

METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.

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HORTICULTURAL AUCTIONEERS.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

Wholesale Markets.

Cut Flowers.

NEW YORK, April 9.

Roses, Perle, Cusin, Watteville	2.00@ 3.00
" Meteor, Mermet, Bride	2.00@ 6.00
" Bridesmaid, La France	3.00@ 8.00
" Beauty	5.00@25.00
" Hybrids	5.00@25.00
" Jacqs	2.00@ 8.00
Carnations	1.00@ 3.00
Harrisil Lilies	2.00@ 4.00
Violets	.50@ .75
Valley	2.00@ 3.00
Daffodils, Tulips	2.00@ 3.00
Mignonette	1.00@ 5.00
Smilax	10.00@12.00
Asparagus	50.00
Adiantum	1.00
Lilacs, per bunch	.50@1.00

BOSTON, April 9.

Roses, Niphetos, Gontier	2.00@ 4 00
" Perle, Sunset	3.00@ 4.00
" Bride, Mermet	4.0u@ 6.00
" Jacqs	6.00@15.00
" Brunner	10.00@40.00
Carnations	1.00@ 2.50
Violets	50@ .75
Harrisil	6 00@ 8.00
Lily of the valley, daffodils	3.00@ 4 00
Astilbe	1.00@ 2.00
Mignonette	2.00@ 4.00
Adiantum	1.00
Smilax	10.00@12.00
Asparagus	50.00
Primroses, per bunch	12c
Heath, per bunch	50

PHILADELPHIA, April 9.

Roses, Perle, Gontier, Niphetos	3.00@ 4.00
" Cusin, Watteville, Hoste	3.00@ 4.00
" Bride, Mermet, La France	5.00@ 6.00
" Kaiserin, Bridesmaid, Testout	6.00@ 8.00
" Belle, Beauty	10.00@25.00
" Laings	12.50@25.00
" Brunner	25.00@40 00
" Jacqs	10.00@15.00
Carnations, H. Keller	6.00
" Ophelia, Sweetbrier	3.00
" Edna Craig	3.00
" good ordinary	2.00@ 3.00
Violets	1.00@ 2.00
Mignonette	1.50@ 2.00
Asparagus	50.00@75.00
Harrisil lilies	6.00@ 8.00
Callas	6.00@ 8.00
Sweet peas	2.00@ 3.00
Tulips	4.00@ 5.00
Cattleyas	40.00
Orchids	15.00@40.00
Smilax	15.00@20.00

CHICAGO, April 10.

Roses, Beauty	8.00@30.00
" Hybrids	25.00
" Jacqs	12.00@15.00
" Bride	4.00@ 5.00
" La France	4.00@ 5.00
" Mermet	3.00@ 4.00
" Meteor	4.00@ 6.00
" Bridesmaid	6 00@ 7.00
Carnations	1.00@ 1.50
" fancy	2.00
Harrisil	6.00@ 8.00
Romans	2.00
Valley, Tulips	2.00@ 3.00
Dutch hyacinths	4 00@ 5.00
Daffodils	2.00@ 3.00
Violets	.80@ 1.00
Mignonette	2.00@ 2.50

ST. LOUIS, April 9.

Roses, Perles, Niphetos, Wootton	2.00@ 4.00
" Bride, Mermet, Meteors	4.00@ 6.00
" Watteville, Hoste, Cusin	3.00@ 5.00
" Bridesmaid	4.00@ 6.00
" La France, Albany	3.00@ 4.00
" Beauty	5 00@35.00
Carnations, long	1.00@ 1.75
" fancy	1.25@ 2.00
" short	.75@ 1.00
Valley	2.00@ 4 00
Harrisil	6.00@10.00
Callas	4.00@ 6.00
Smilax	15.00
Adiantum	1.25

CINCINNATI, April 9.

Roses, Beauty	10.00@25.00
" Mermet, Bride	4.00@ 6 00
" Testont	8.00
" Perle	3.00
Carnations	1.00@ 3.00
Tulips	3.00
Narcissus	3.00
Daffodils	2.00@ 3.00
Valley	3.00
Romans	2.00
Violets	.75@ 1.00
Callas, Harrisil	6 00@ 8.00
Pansies	.50@ 1 00
Smilax	12.50
Adiantum	1.00

BUFFALO, April 9.

Roses, Beauties	15.00@25.00
" Jacqs, Brunners	10 0 @15 00
" Mermet, Bride,	5.00@ 7.00
" Meteor	6.00@10.00
" Goutier, Perle Hoste	4.00@ 6.00
" Cusin, Watteville	4.00@ 6.00
Callas, Harrisil	8.00@10.00
Carnations, long	1.00@ 1.50
" Daybreak and Wm. Scott	1.50@ 2 00
Valley	3 00@ 4.00
Violets	.60.@ 75
Tulips, Daffodils	3.00@ 4.00
Romans	2.00@ 3.00
Pansies, Forget-me-not	1 00
Mignonette	1.00@ 2.00
Smilax	15.00@20.00
Adiantum	1.50
Asparagus	50.00

When writing to any of the advertisers on this page please mention the American Florist.

FOR After Easter Weddings,

PURE WHITE LILAC

Seasonable, Choice, Appropriate.

ALSO ALL OTHER DESIRABLE STOCK.

CAN SUPPLY IN ANY QUANTITY DESIRED.

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WHOLESALE

FLORIST,

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Roses Shipped to all points. Price list on application.

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Wholesale Florist,

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☞ Send for quotations on Choice Stock.

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CUT FLOWERS,

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117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE CAREFUL PACKING.

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111 WEST 30TH STREET,
NEW YORK CITY.

Established 1879.

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NEW YORK.

BRANCH: Cut Flower Exchange, 408 E. 34th Street.

Edward C. Horan,

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Careful Shipping to all parts of the country
Price list on application.

WELCH BROS.,

Wholesale Florists,

NO. 2 BEACON STREET,

Near Tremont St., BOSTON, MASS.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, at Toronto, Ont.

CHAS. A. REESER, seedsman and florist, Springfield, Ohio, is reported to have assigned.

PEAS AND BEANS are very short; onion seed continues to move fairly at the low prices.

TWENTY-TWO Dutch travelers in the bulb trade are said to be in America at this time.

THE Middletown, Conn., *Tribune* of March 13 prints an engraving of the seed store of Fred. P. Burr & Co. with a descriptive article noting the large increase in their business since they started 16 years ago.

THE catalogue mail trade has suffered greatly from the cold, damp and unseasonable weather of the past 15 days, the receipts falling off from 35 to 50 per cent. Grave doubts exist whether the trade will come on again as actively as in March. The total trade for the season is now certain to fall behind last year considerably.

DO YOU WANT a list of firms in the trade that issue catalogues, with key showing proportion of space given each branch of the trade in same? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

Tuberoses. . .

DWARF PEARL and TALL DOUBLE.
FINE, SOUND BULBS.

1st Size.....$1.00 per 100; $8.00 per 1000
2nd Size..... .60 " 5.00 "

BROWN & CANFIELD, Springfield, Ill.

Begonias and Palms

BEGONIA Metallica, fine plants, 4-inch, $10.00
" " " 3-inch, 6.00
" De Lesseps, " 4-inch, 10.00
PALMS, well-grown Kentia Fosteriana, 5-inch pots, 30 to 36 inches high, $15.00 per dozen.

BROWN & CANFIELD,
SPRINGFIELD, ILL.

WATER LILIES.

SEED, TUBERS AND ROOTS.

Now is the time to sow seed of Water Lilies and Nelumbiums, and plant Hardy varieties. Seed 50c. trade pkt. Dormant tubers and roots by mail.

WM. TRICKER, Clifton, N. J.

Latania Borbonica.

From 6-inch pots, 21 inches high, with 5 to 7 characteristic leaves.

$1.00 each; $9.00 per dozen; $75.00 per hundred. Price of smaller sizes on application

NATHAN SMITH & SON,
157 W Maumee St., ADRIAN, MICH
Mention American Florist.

WANTED TO EXCHANGE

Several thousand fine California Calla bulbs in three grades, for first-class Narcissus and Roman Hyacinth stock

Address W X, care American Florist.

CHESTNUTS

The large varieties—Numbo, Paragon and Japan. The best grafted trees, also seedlings. Other nut trees in variety

THE WM. H. MOON CO., Morrisville, Pa.

Established 1830.

R. VAN DER SCHOOT & SON,

HILLEGOM, - HOLLAND,

Largest Growers of

HYACINTHS, TULIPS, NARCISSUS,
SPIRAEA, LILIES OF THE VALLEY, ETC.

HEADQUARTERS FOR HIGH GRADE FORCING BULBS.

Wholesale Importers should write us for Prices.

OUR NEW TRADE LIST NOW READY.

VAN ZONNEVELD BROTHERS & CO.

SASSENHEIM, - HOLLAND,

—GROWERS OF—

HYACINTHS, TULIPS, NARCISSUS, ETC.

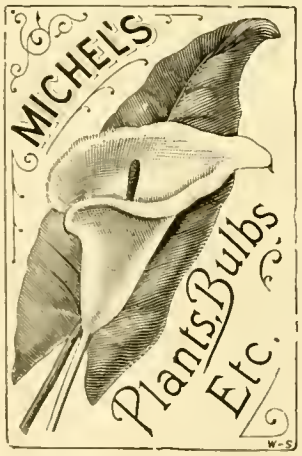
ASK FOR CATALOGUE.

P. VOS, of the firm

P. VOS & CO., Bulb Growers,

SASSENHEIM, near Haarlem, HOLLAND,

Is at present making a tour of the United States, and all communications directed to me at MEYERS' HOTEL, HOBOKEN, N. J., will have prompt and careful attention.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Mention American Florist.

Hulsebosch Brothers,

OVERVEEN, near Haarlem, HOLLAND.

Bulbs AND Plants

We are now prepared to quote lowest possible prices for next July, August and September delivery.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.
After May 1, '94, address will be ENGLEWOOD, N. J.

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FREESIAS, LIL. LONGIFLORUM, CALLAS, GEM CALLAS, AMARYLLIS, CALIFORNIA BULBS, Brodiaeas, Calochortus, Fritillarias, TREE FERN STEMS, and Australian Palm Seeds. Send for our NEW PRICE LIST.

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Established 1870. SAN FRANCISCO, CAL.

CATALOGUE PRINTING.
ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.
. . . HARRISBURG, PA.

FIFTY THOUSAND

PEARL TUBEROSES

F. O. B. NEW YORK.

We offer selected bulbs of above, from four to six inches in circumference, for present shipment, at $9.00 per 1000. Orders accepted subject to being unsold.

SWEET PEAS, California grown.

We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.
(SHERWOOD HALL NURSERY CO.)
427-9 Sansome St.. *San Francisco, Cal.*



New Catalogue (No. 4) containing over 1000 Ornamental Cuts for Florists' use, such as envelopes, letter-heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upward. Price of Catalogue 25c. (deducted from $1.00 order).

A. BLANC, ENGRAVER for FLORISTS, Philadelphia, Pa.

HERRMANN'S SEED STORE

413 East 34th Street,
Near Long Island Ferry, NEW YORK.

Complete Stock of
ASTER SEEDS
At Reasonable Prices

PRICE LIST FREE ON APPLICATION

HOLLAND FORCING BULBS

Our Specialties for this Season will be

HYACINTHS, All Leading Varieties.

Small, pure white Hyacinths, to succeed the Romans.
Scarlet van Thol Tulips, La Reine, Chrysolora and other market vars.
Double Van Sion Daffodils in any quantity.
Narcissus Bicolor Horsfieldii, Sir Watkin, Poeticus ornatus, Albus plenus odoratus.
Spiræa compacta multiflora and Spiræa astilboides, two new sorts now much in demand in Europe.
Lilies and other bulbs and bulbous roots for forcing, etc.

Send list of what you need to

SEGERS & CO.
BULB GROWERS,
LISSE, near Haarlem, Holland, Europe.

Registered cable address SEGERSCO, Lisse, Holland.

ESTABLISHED 1874.

One customer writes: "The bulbs received of you last fall were very satisfactory." And another wrote last October: "The bulbs you forwarded us have opened up very satisfactory indeed, being fine, large bulbs, and in good condition."

We Book Orders Now for

CYCLAMEN SEEDS,
European strain, the best in the world.

LILIES OF THE VALLEY,
Berlin and Hamburg Pips.

AT IMPORT PRICES.

SCHILLER & CO.,
Commission Seed Merchants,
122 E. 23rd Street, NEW YORK

Please make us offer of all kinds of Seeds and Bulbs, we will sell it for you.



TRY DREER'S GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER, Philadelphia, Pa.

SEEDS!
PLANTS! BULBS!
Everything appertaining to the **Farm** and **Garden** of the best and choicest quality. **PRICES RIGHT.**
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

Tags Printed to Order
Size 2½x5 inches..... per 1000 $1.50; 5000 $6.00
Size 3¼x6½ inches.. per 1000 2.00; 5000 7.00
For other sizes write for prices. Address
SAMUEL WHITTON PRINTER, Utica, N. Y.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

THE AMERICAN FLORIST CO.'S

·D·I·R·E·C·T·O·R·Y·

— OF —

FLORISTS, NURSERYMEN AND SEEDSMEN

— OF THE —

UNITED STATES AND CANADA,

— AND —

REFERENCE BOOK,

FOR 1894,

IS NOW READY....

CONTENTS.

The names and addresses of all the Florists, Nurserymen and Seedsmen in the United States and Canada, arranged alphabetically in States and Provinces, the exact branch of the business each is engaged in being indicated by the following

····KEY····

F Florists who do a general local trade, having greenhouses and retailing the product of same.
G Florists who grow cut flowers or plants for the wholesale market and who do not sell at retail. Almost always within a short distance of a large city.
R Retail store florists who have no glass of their own. Nearly always in the large cities.
D Wholesale commission dealers in cut flowers.
N Nurserymen.
X Those who are both Nurserymen and Florists.
S Seedsmen.
Z Those who are both Seedsmen and Florists.
A Those who combine all the branches, viz.: Florists, Nurserymen and Seedsmen.

····ALSO····

A list of Trade Organizations, both National and Local, with names and addresses of principal officers, time and place of meetings and date of organization.
Statistics regarding Floriculture, the Nursery Industry and Seed Growing from the last U. S. Census report.
A list of firms in the trade that issue catalogues, with a key indicating the prominence of each branch of the trade in same.
A list of leading Cemeteries in which attention is paid to Ornamental Horticulture.
A list of leading Park Superintendents and of the Botanical Gardens of the United States.
Seasonable Hints for the year about the practical work of the Florist, written by Wm. Scott, giving instruction not only when to do certain work, but how to do it most effectively and economically.
A complete alphabetical list of Roses in commerce in America, brought up to date and of incalculable value for reference.
Similar lists of Chrysanthemums and Carnations.
Historical sketches to date of the Society of American Florists, American Carnation Society, National Chrysanthemum Society of America, Florists' Hail Association, American Seed Trade Association and American Association of Nurserymen.
A list of Leading Horticultural Societies.
Full and accurate information about Express and Postage rates.

Toronto.

March just past was 7° higher than the average of 53 years, the mean temperature being 35° and a decimal. The weather since Easter has been cold but outdoor gardening operations are now beginning, which at least looks as if spring was here. The poets have however scarcely been able to get up enough enthusiasm to break out into verse yet.

I omitted to mention in my last notes that many more of the churches in this city than in former years decorated with plants and flowers for Easter day. Public opinion has changed a great deal in this respect during the last few years. Formerly some of the denominations who now decorate extensively, held that to adorn a church with flowers was not to be thought of.

Trade lately has been gradually tapering off to a pretty fine point and prices have likewise been undergoing the same process. Now that business has settled into the ordinary work-a-day rut again and florists can take a calm retrospect of the Easter trade, most of them seem to be fairly well satisfied and to consider that things have not gone back at all in spite of the universal hard times. E.

Bethlehem, Pa.

It is with feelings of pleasure I write you that we have had a mild March which brought all stock forward finely. From Monday until Wednesday Easter week the weather was fine, Thursday and part of Friday we had rain which dampened our spirits and sales to a considerable extent, Friday noon it cleared and our spiritual thermometer went to the 90° mark, and by Saturday night all florists were cleaned out of everything that had a flower on it. Sales were one-fifth larger than last year. Azaleas, hydrangeas, genistas, astilbe, Harrisii lilies, hyacinths and tulips sold best. In cut flowers the demand run to bunches of loose, or boxed for mailing, roses and carnations being preferred. Designs went slow. Our sales are mostly for cemetery decoration, which is an extensive custom here. JACOB A. FRIES.

To the Florists.

I am ready now to give a test without cost for keeping cut flowers or plants in blossom perfectly fresh and full of vitality for at least ten days. Anyone desiring to have such a test can send me specimens of what they may desire to test, marked and sealed, at No. 68 South Water Street, and I will return them to the sender in 8 or 10 days for their inspection.

As I have decided to build preservers for Florists, etc., and as I don't desire anyone to spend any money before they know what they get, I make the above proposition to give a test to anybody who desires one.

Address The Allegretti Refrigerator Co.,

No 68 South Water St. *CHICAGO*

Tuberous Begonias.

GRIFFIN'S STRAIN.

Medal Awarded at World's Fair.

We are headquarters for the above, the finest strain in the world. Send for illustrated descriptive catalogue with copyright engravings. It tells you all about them.

OASIS NURSERY CO.,

Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.

Farfugium Grande.

Fine plants, $7.00 per hundred; by mail, postpaid, $1.00 per dozen. You will make a mistake if you fail to secure a stock of this, always scarce plant, at the above low price.

TILTON BROS.,

No. 222 Grove Street, AURORA, ILL.

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It will pay every Florist who is interested in the

CARNATION

to send for our Illustrated Catalogue of new seedling carnations.

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EULALIAS.

Of these popular and valuable Grasses we offer strong roots:

Eulalia gracillima univittata, $6 per 100; $50 per 1000.
" Japonica variegata, 6 per 100; 50 per 1000.
" " zebrina (Zebra Grass) 8 per 100.

F. O. B. for cash with order.

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Orchids,

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Highest Quality, Lowest Prices. Correspondence Solicited.

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ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants. A grand selection for Stove, Greenhouse and Conservatory.

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The Leading kinds for cut flower purposes.

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Rooted Cuttings Ready Now.

Silver Spray	Wm. Scott	E. Pierson
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Golden Gate	Annie Pixley	F. Mangold
J. J. Harrison	M. Albertini	Tidal Wave
T. Cartledge	Nancy Hanks	Dr. Smart

These and other standard sorts at market prices.

Varieties of 1894 Ready April 1st.

The Stuart (scarlet) was awarded the gold medal at Indianapolis. Uncle John (white), Helen Keller (variegated) received certificate of merit at same place. Goldfinch (yellow) and E. A. Wood.

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Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment October from 1 to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to $5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

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NYMPHÆA Odorata, large rhizomes		$1.00
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Extra fine, 2 and 3 years old.
Barr's Mammoth, Conover's Colossal and Palmetto.

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McGowan, Spray, Portia, Darling, Dorner, Freeman and Aurora at $1.25 per 100 or $10.00 per 1000.

Daybreak and Edna Craig at $2.00 per 100 or $17.50 per 1000.

Annie Pixley and Helen Keller at $10 per 100. Cash with the order or C. O. D.

ALBERT M. HERR, L. B. 496, **Lancaster, Pa.**

COLEUS.

Fine assortment, clean cuttings, at .75 per 100 or $6.00 per 1000.

Alternanthera, transplanted plants, at $8.00 per 1000.

Scabiosa (Snow Crest), the finest white in the world, .90 per 100 or $7.50 per 1000.

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Seedling plants at $5 00 per 1000. Blooming plants at $12.00 and $15.00 per 1000. The same good strain I always have.

Verbena, seedling plants of mammoth strains, extra fine. Cuttings are not in it with these plants; .90 per 100 or $7.50 per 1000.

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MAMMOTH STRAIN **VERBENAS.**

Rooted Cuttings or Plants.

New French Cannas; Chrys. Geo. S. Conover; Geranium Silver Jewel; Anemone Whirlwind; Pink Her Majesty; Fuchsia Trailing Queen; and many other fine Novelties.

Write for Illustrated Catalogue.

VICK & HILL,

ROCHESTER, N. Y.

CARNATIONS

Rooted Cuttings, Now Ready.

	Per 100	Per 1000
DAYBREAK	$2 50	$20 00
BUTTERCUP	4 00	35 00
PURITAN	2 00	15 00
SILVER SPRAY	1 50	10 00
LIZZIE McGOWAN	1 50	10 00
GRACE WILDER	1 50	10 00
PORTIA	1 50	12 00

Cash with order. 10c. per 100 extra when ordered shipped by mail.

Send for wholesale price list of Rooted Cuttings and Plants.

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THE JACQUEMINOT CARNATION

Is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. **NO MORE SAMPLES**—we cannot spare the time. Send for circular. Per dozen, $2.00; per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.

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WE are now filling promptly all orders FOR Ada Byron and Nicholson CARNATIONS.

They are the cream of the year.

Send for circular to

JOSEPH BRECK & SONS,

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Rooted CARNATION Cuttings.

	Per 100	Transplanted
Hinze's White	$.75	$1.00
Lamborn	.75	1.25
Lizzie McGowan	1.00	1.50
Grace Wilder	1.00	1.50
Portia	1.25	1.50
Aurora	1.50	2.00
Dreer's Double Petunia, 2-inch pots	2.00	

J. T. DeWITT, Bristol, Pa.

ADDITIONAL EVIDENCE OF THE VALUE OF THE NEW CARNATION "HELEN KELLER"

May be gleaned from the following letter, dated March 26; received from that practical florist Mr. Wm. Scott, Buffalo, N. Y., who writes as follows:

"The box of flowers of **"HELEN KELLER"** arrived in most excellent order on Friday A. M. I assure you I am much obliged to you. They are **WONDERFUL** in size and stem, and in keeping qualities, also. They were a revelation to me. I want 250 of them."

PRICE FOR WELL ROOTED CUTTINGS:

$3.00 per dozen; $12.00 per 100; $25.00 per 250; $90.00 per 1000. 500 at 1000 rate.

ORDERS MAY BE SENT EITHER TO

EDWIN LONSDALE, *CHESTNUT HILL, PHILA.* or **JOHN N. MAY,** *SUMMIT, N. J.*

4 NEW CARNATIONS FOR 1894.

UNCLE JOHN, white; **THE STUART,** scarlet; **E. A. WOOD,** pink variegated; **GOLDFINCH,** yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from **Headquarters.** We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Eliz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.

Send for price list.

F. DORNER & SON, La Fayette, Ind.

MONEY-GETTERS ALL!

THESE NINE CARNATIONS FROM SOIL. Free from Disease and First-Class in every way.

- Uncle John
- The Stuart
- Wm. Scott
- Edna Craig
- Albertini
- Daybreak
- Cartledge
- McGowan
- Portia

Note, before you order elsewhere, that we offer the above and twenty other good varieties of Carnations, well established in soil, ready for planting out or potting up—delivery in April—at the price of cuttings from sand, and guarantee satisfaction. Send for list.

ALEX. McBRIDE,

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SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE,

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000.

Send for price list.

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CARNATIONS

ROOTED CUTTINGS NOW READY.

Wm. Scott, Edna Craig, Daybreak, Thos. Cartledge, Buttercup, McGowan, and many of the standard kinds. Orders filled for the New varieties, Stuart, Uncle John, Helen Keller, Sweetbrier, Annie Pixley, Bouton d'Or.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

SEND FOR OUR PRICE LIST OF

CARNATION ROOTED CUTTINGS.

Prices Greatly Reduced
Largest Stock in the United States.

ESSEX HEIGHTS FLORAL CO.,

BELLEVILLE, N. J.

COLEUS.

Our stock is large and handsome, consisting of 70 to 75 varieties, including the very newest kinds.

ROOTED CUTTINGS, in 30 to 40 varieties, (our selection), at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.

NEW KINDS, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.

Golden Verschaffeltii and **Mrs. I. D. Haight** (yellow), at $8.00 a 1000. *We will include* at least 50 cuttings of the *new kinds* in every 1000 purchased.

CARNATIONS.

A large stock of **BUTTERCUP** in prime condition.

Rooted Cuttings, $5.00 per 100; $40 00 per 1000. Prices of other kinds on application.

Send for circular. Safe delivery guaranteed in all cases.

W. R. Shelmire,

. . . AVONDALE, PA.

Mention American Florist.

50,000 Carnations.

ROOTED CUTTINGS.

NO "RUST."

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Wm. Swayne,

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ROOTED CUTTINGS OF CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chester Co., PA.

ROOTED CUTTINGS. Chrysanthemums AND Carnations.

Write for list and prices. Prices to suit the times.

PANSIES, from cold frame, first size, $25.00 per 1000; second size, $15.00 per 1000.

Address **J. G. BURROW, Fishkill, N. Y.**

BOUTON D'OR,

The best Yellow CARNATION. Ready May 1st. Price $2.00 per dozen; $10.00 per hundred.

DAILLEDOUZE BROS., Flatbush, L. I., N. Y.

THE DIRECTORY

For 1894

IS NOW READY.

Price $2.00.

AMERICAN FLORIST CO.

New Orleans Horticultural Society.

The seventh annual exhibition of this society was held at the Washington Artillery Hall March 29 to April 1 inclusive. Taking all things into consideration, this was the largest and finest exhibition ever held in the city, though some things were not up to the standard owing to the unusually cold weather preceding the show, which made flowers scarce.

In cut flowers, designs and decorations there was some fine work from C. W. Eichling, C. Eble and U. J. Virgin, C. Eble being first for mantel and C. W. Eichling first for table decoration, both using very fine flowers. M. Cook and J. H. Menard made a fine display, also R. E. Simons, not for competition. The large groups of palms made a great feature of the show. In the classes for private gardeners H. Papworth and John St. Maud ran very close in the collection of foliage plants, the prize (a sewing machine) going to Mr. Papworth. In Mr. St. Maud's group was the finest Adiantum Farleyense ever seen here. H. Papworth also took two prizes for orchids. In the florists' classes M. Cook and C. Eble took several plant prizes; J. H. Menard and E. Valdejo were also successful exhibitors. Several of the local seedsmen also made a nice display.

The society was greatly aided by prominent people of the city, who showed their interest by several special prizes. E. G. Hill of Richmond, Ind., gave a special prize for geraniums, J. C. Vaughan of Chicago, special for World's Fair cannas, and Jas. R. Pitcher of Short Hills, N. J., special silver medal for collection of flowering and foliage anthuriums. H. P.

Greenfly.

ED. AM. FLORIST: In the November, 1893, number of *Insect Life*, issued by the U. S. Dept. of Agriculture, on page 15, remedies for aphis are given. The one most favored is a resinous solution made by dissolving the resin with caustic soda or carbonate of soda. The effect upon greenfly is immediate. If any of your subscribers have tried it, it would be very interesting to have them note the results in the FLORIST. F. C. CURTIS.

Marie Louise
VIOLETS
Rooted Cuttings, $5 00 per 1000.
ANCHORAGE ROSE CO.,
ANCHORAGE KY.

BEST GERMAN
PANSY PLANTS.
$5.00 per 1000. 75 cents per 100.
Cash with order.
JOHN P. TONNER, Mont Clare, Ill.

ROOTED CUTTINGS
Of All Description.
Verbena, Heliotrope, Fuchsia, Coleus, Petunia, double white and variegated; Geranium Mt. of Snow, Mme. Salerol, Bowering, Csln. pink, Othonna, German Ivy, Tradescantia, variegated and zebrina, Carnations, etc., $1.00 per 100.
Smilax plants, strong, $2.00 per 100.
Chrysanthemums Wholesale Cut Flowers.
ADDRESS F. A. HAENSELMAN,
Denver City Nurseries, Box 291, South Denver, Colo

At Half Price till May 1st.
To close out surplus I offer 3000 Smilax Plants, strong, 1 year, at $10.00 per 1000. Cash must accompany order.
JOS. E. BONSALL, Salem, Ohio.
Mention American Florist.

Bargains in Hardy Herbaceous Plants.

CLEMATIS DAVIDIANA	$ 6.00	per 100	$ 50.00	per 1000	
BLUE DAY LILY (Funkia ovata)	5.00	"	40.00	"	
GAILLARDIA GRANDIFLORA	7.00	"	60 00	"	
HEMEROCALLIS DUMORTIERI	6 00	"	50.00	"	
LOBELIA CARDINALIS	6.00	"	50.00	"	
PARDANTHUS SINENSIS (Blackberry Lily)	5.00	"	35.00	"	
PERENNIAL PHLOX, fine named sorts	6.00	"	50.00	"	
SEDUM MAXIMOWICKSII	6.00	"	50.00	"	
" MAXIMUM	6.00	"	50.00	"	
RAGGED ROBIN (Lychnis viscaria, fl. pl.)	8.00	"	75 00	"	
HERBACEOUS PÆONIES, named or in colors	15.00	"	125.00	"	

All fine strong plants. 500 other varieties at low rates for strictly bang-up stock.
☞F. O. B. for cash with order.
J. T. LOVETT CO., Little Silver, N. J.

CHRYSANTHEMUMS "THE BEST UP TO DATE"
THROW OUT THOSE OLD TIMERS, AND STOCK UP WITH THE BEST. YOU CAN AFFORD IT AT THE FOLLOWING PRICES.
Plants from 2-inch pots, grown cool, strong and stocky and guaranteed TRUE to name.
Nivens, Pres. Wm. R. Smith, Mabel Simpkins, Golden Wedding, Mrs. F. L. Ames, Parthenia, Dr. H. D. Hull, Miles A. Wheeler, Emily Ladenburg, Mrs. Jerome Jones, Flora Hill, Minnie Wanamaker, Dr. Callendreau, Harry E. Widener, Harry Balsley, Etoile de Lyon, Roslyn, Eda Prass, Tuxedo, Harry May, Hicks Arnold, Geo. W. Childs, Col. Wm. B. Smith, Emma Hitzeroth, Mrs. H. F. Spaulding.
1 each above 25 varieties for $1.00. 5 each above 25 varieties for $4.50.
10 each above 25 varieties for $8.00.
CASH WITH ORDER. SATISFACTION GUARANTEED. SEND FOR "MUM" CIRCULAR.
H. W. TURNER, Chrysanthemum Specialist, SHARON, PA.

HOW TO GROW CUT FLOWERS.
A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00. M. A. HUNT, Terre Haute, Ind.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.
Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.
NO RUST OR MILDEW.
Packed light, and satisfaction guaranteed. Send for circular. . . .
We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.
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Pansies, 50,000.
The Jennings strain of large flowering and fancy pansies now ready. Fine large blooming plants, all colors, $2.00 per 100; $15.00 per 1000. Medium size plants, for May blooming, $5.00 per 1000 by Express; 60c. per 100 by mail.
Pansy Seed, pure white $1 per pkt. of 2500 seeds.
Large yellow, dark eye, $1 " " "
Snowflake Daisies, fine plants, $2 per 100.
Extra fine strain of German Daisies, large and double, white, pink and red, mixed or separate, $2.00 per 100. Cash with order.
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WHOLESALE PANSY GROWER,
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RUBBERS.
Tree grown, three to eight branches, very fine stock, $12.00 to $25.00 per dozen.
PALMS, leading varieties at bottom prices.
J. T. ANTHONY,
2205 Michigan Ave., CHICAGO, ILL.

PANSIES.
Imperial German mixed, best strain in the market; large stock plants, most all in bloom.
2 inches in diameter..... $2.00 per 100; $15.00 per 1000
4 to 6 inches in diameter .. 4.00 "
VERBENAS Hybrid mixed, very strong plants, in 3-inch pots $2.50 per 100; $20.00 per 1000
Rooted Cuttings..... .75 " 6.00 "
Sample on application. Cash with order.
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Make known your wants and we will be pleased to quote prices.
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The Universal Horticultural Establishment,
SOUTH ORANGE, N. J.

500,000 Strawberry Plants.
OF 20 GOOD VARIETIES.
No. 1 plants very low. 5,000 CONCORD, 2 years, at $10.00 per 1000. 5,000 No. 2 DOUBLE PEARL TUBEROSE, good flowering bulbs, at $3.00 per 1000; 2,000 for $5.00. With or without sets. Send for price list to
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All the leading varieties for cultivation under glass, in following sizes: 1 year, 2 years, and extra strong. Also Peaches and Nectarines specially prepared for forcing in pots and tubs. Orders booked for specially prepared fruiting plants of Vines, Nectarines, Peaches, Strawberries, Fall of '94 delivery.
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5,000 CONCORDS, 3 years old, $5.00 per 100.
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CANNA MME. CROZY, started plants, $1 per doz.
CHRYSANTHEMUMS, nice young plants, including some of the newer varieties, my selection, $2.50 per 100.
FUCHSIAS, healthy vigorous young plants, from 2-inch pots. Splendid list of varieties, my selection, $2.50 per 100.
GERANIUMS, large assortment, my selection, $3.00 per 100.
CARNATION, entirely free from disease. One hundred in assorted colors, my selection for $2.50.
PANSIES, from finest seed to be had, $2.00 per 100.
BEGONIAS, fine assortment, 2-inch, my selection, $3.00 per 100.
ALYSSUM COMPACTUM, $2.00 per 100; strong, 2-in.
DUSTY MILLERS (Centaurea Gymnocarpa), $2.00 per 100 for strong 2-inch.
ENGLISH IVY, 2-inch, $3.00 per 100.
Any of the above plants 25 at the 100 rate.

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

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P. MAJOR and A. NANA.

Fine stock and true, at 75c per 100; $6.00 per 1000. Ready April 15.

Also clumps of VIOLET Lady H. Campbell and M. Louise, cheap.

HOFFMEYER, Florist, Carnegie, Pa.

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They Don't Break. Sold by all Dealers.

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CANNA
CALLA
CLOTHILDE

Florence Vaughan, Per 100 $25.00.
True Little Gem, Per 100 $10.00.
Soupert Rose, Per 100, 2½ inch, $4 00.

H. P. ROSES, ETC.

H. P. Roses, 2 year old (budded), at $10.50 per 100; $100.00 per 1000.
Madam G. Luizet, Mabel Morrison, Prince C. de Rohan, Ulrich Brunner, Mrs. John Laing, Magna Charta, Glant des Batailles, Duke of Edinburgh, Gen'l Jacq (on own roots), 12-18 inches, fine stock, at $8.00 per 100.
Prairie Queen and Baltimore Belle, at $8.00 per 100.
Tree Roses, fine tops, H. P. sorts, at $8.00 dozen.
Raspberries—Shaffers Colossal, at $1.25 per hundred.
" Gregg, at $1.00 per hundred.
Gooseberries—Industry, 2 year old, at $10.00 per hundred; 1 year old, at $5.50.
Clematis—Jackmanni and Type, 3 year old, $4 80 per dozen, $38.00 per hundred; Jackmanni, 2 year old, Dormant (pot grown), at $3.75 per dozen, $27.00 per hundred.
Hydrangeas Paniculata Grd., 24-30 inches, at $9.00 per hundred
Hydrangeas Paniculata Grd., 18-24 inches, at $6.00 per hundred.
Cycas Revoluta stems, from 3 to 100 pounds each, at 17½ per pound.

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KNIPHOFIA or TRITOMA CORALLINA.

A grand improvement upon the old *K. grandiflora or Uvaria.*

More pleasing by far in color, more refined in structure and four times as floriferous.

Fine plants from 3-inch pots, $ 6.00 per 100; $50.00 per 1000
Heavy plants, 2 years old, 10.00 "
Also *K. grandiflora*, strong plants, $8.00 per 100.
F. O. B. for cash with order.

J. T. LOVETT CO., Little Silver, N. J.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

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Fruit and Ornamental. Spring Planting. Handsome new 160 page Catalogue Free.
Awarded Several Medals at the World's Fair.
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150,000 of all the leading varieties.

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50,000 of leading varieties.

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HONEYSUCKLES.

Sweet-scented, ever-blooming, white and pink, large, field grown plants $8.00 per 100; $60.00 per 1000.
ANEMONE Japonica Alba, fine for cut flowers, plants from 2-inch pots, $3.00 per 100; $25.00 per 1000.
CHRYSANTHEMUMS, Golden Wedding and Good Gracious, rooted cuttings, $4.00 per 100. Plants from pots, $6.00 per 100.
Would EXCHANGE for small palms.

EVENDEN BROS., Williamsport, Pa.

Mention American Florist.

10,000 GERANIUMS of the standard bedding sorts, from 3 and 4-inch pots.
10,000 CARNATIONS, from 2½-inch pots. Also 5,000 Rooted Cuttings ready now.
30,000 ALTERNANTHERA, ready April 1st, of all the standard sorts.
700 strings of SMILAX, of which the average length is 7 feet.

Write for prices, as I will sell at a sacrifice to make room for other stuff.

MRS. GEO. R. FRAVELL, Marion, Ind.

PROP MARION AND MAPLE HEIGHTS GREENHOUSES.

Verbenas

SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" " " rooted cuttings,	1.25	10 00
General collection, named, " "	1.00	8.00
" " " 2¼-inch pots	2.50	20.00

Send for price list of Carnations, Chrysanthemums and other florist stock.

WOOD BROTHERS, Fishkill, N. Y.

St Paul, Minn.

Trade continues fairly good, with no particular change. Retail prices of cut flowers remain firm and the demand is equal to the supply. Beauties are more abundant and of better quality. Bulbous stock is about all gone and none of the florists regret it. The opinion prevails that while valley and Romans are invaluable, and daffodils, tulips and Dutch hyacinths are in demand at Easter the growing of many Dutch bulbs is unprofitable and the results too uncertain to warrant their extensive use in future. The profits on bulbous stock, as is well known, are not large, and while the labor, time and space in bringing them into bloom is not great, the uncertainty of sales and the growing popularity of roses, carnations and cheap potted plants will make our florists more cautious than ever in buying bulbs. For bargain sales in department stores they may be attractive, but for certain profits in commercial establishments they are not.

Favorable weather the past week gave promise of an early spring and consequent early demand for bedding plants. Now that Easter flowers are out of the way bedding plants have more space and more attention and should be in prime condition when wanted for planting out. Our summers are short at the best and people want large plants for immediate effect when planting time arrives.

Society has hardly recovered from the Lenten lethargy. Several events, however, are booked for the near future and with several weeks of gaiety before the outing season arrives our florist friends should feel much encouraged.

"Glass Block" Donaldson, of our sister city, is again selling cheap flowers. We presume he buys them at home, as we have not learned of any being sold him in St. Paul. Department stores here have also offered "cheap flowers"; whether they really were cheap or not the writer cannot say.

John May, the genial manager of L. L. May's city store, has been passing the cigars around. It's a boy and looks like his daddy. FELIX.

DURING a recent visit to the Quaker City Machine Works, Richmond, Ind., we were much interested in the special machinery used in the manufacture of their Challenge Ventilating apparatus. Mr. Evans is quite a genius in devising labor saving machinery and is continually studying out improvements for his Challenge apparatus. The firm build engines and do a general machine shop business but the ventilating apparatus department has come to be one of the most important.

DO YOU WANT a list of the cemeteries of the country that use trees, shrubs and plants largely in the ornamentation of their grounds and that are apt to be large buyers of these and other horticultural supplies? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

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159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.

GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place, New York City.

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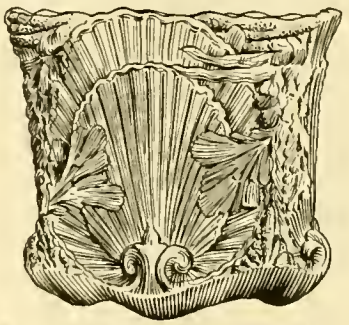
Are ready with a full stock of seasonable goods for Spring Weddings, Commencements and all occasions where floral decorations are used.

Baskets in all approved forms, celluloid, gold and silver; Jardinieres and Ferneries, Doves, Dried and Artificial Flowers, Wheat Sheaves, Metal Wreaths and Memorial Designs, Letters, Ribbons and Tinfoil.

All salable goods. Send for catalogue. Special attention given to filling sample orders.

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Largest and finest stock in the United States. Write for prices to
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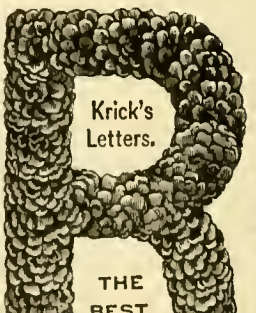
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Address all correspondence to 1 Music Hall Place.
Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.
With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston.
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These letters are made of the best Immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.
2-inch Letters, $3.00 per 100.
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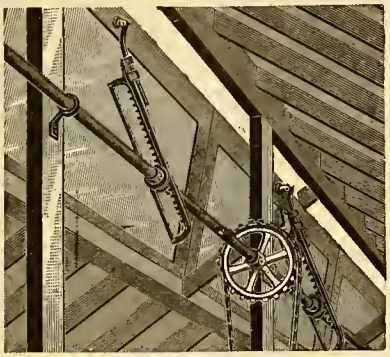
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FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pnts. with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

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Every florist, market gardener, owner of lawn, grass-plat or flower-bed, in fact everyone who has a faucet and hose should have the Kinney Pump (patent applied for) for applying liquid manure, fungicides and insecticides to plants. Feed your plants, fertilize your lawns by using liquid manure. The cheapest, simplest and most scientific spraying pump in use. Sent prepaid for $2.50—spraying valve attachment 50c. Pump complete $3.00. Send for circular. Address

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The best thing of the kind ever invented for greenhouse use. Send for description and price list.

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Directions for Using Fenster Pappe.

A SUBSTITUTE FOR GLASS.

Stretch **Fenster Pappe** taut and use batten in nailing on to sash. Then paint the rough surface thoroughly with boiled linseed oil until it shows a gloss. Let it become THOROUGHLY DRY before using, when it is claimed to do service for years. The application of the oil makes FENSTER PAPPE sufficiently translucent for plant life.

IT IS USED as a covering for cold pit sash; excellent for use in palm or fern houses; to grow strawberry plants, early vegetables, tobacco, etc.. under. A most handy article as a protection against the direct rays of the sun.

TRY a roll of eight yards as a sample, which will cover about four sash, for $1.00. Original rolls, 36 inches wide, 110 yards long, for $9.00.

For further particulars address

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FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,

And for any and every purpose for which a hose can be applied.

Sizes, ⅛-inch to 42 inches diameter.

The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,** Sole Mf'rs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York.

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Neponset Flower Pots

Are sold as follows: **Terms net cash with order.** If ordered shipped by freight add 50 cents cartage.

Size	Packed in Crates of	Gross weight per 1000 pots	Per 100	Per 1000
2¼-inch	1,000	about 20 lbs	$0.25	$2.00
2½ "	1,000	" 23 lbs.	.30	2.30
3 "	1,000.	" 34 lbs.	.35	2.80
3½ "	1,000.	" 45 lbs.	.50	4 00
4 "	500	" 76 lbs.	.60	5 00
5 "	500	" 100 lbs.	.90	8.30
6 "	500	" 150 lbs.	1.50	13.35

Standard Pot Measure. Less quantities than full crates at 100 rates. For further detail see previous special advertisement.

August Rölker & Sons,
MF'RS AGENTS,
New York, 136 & 138 W. 24th St., P. O. Station E.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •
Greenhouse Material,

LOUISVILLE, KY.

Mention American Florist.

The Directory

For 1894

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AMERICAN FLORIST CO.,
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Valuable Discovery of the 19th Century.

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This preparation is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

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Send orders for . . .

CLEAR CYPRESS

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from bottom of gutter up.

Correspondence solicited. Estimates cheerfully furnished.

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CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

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MANUFACTURES

TREE AND PLANT LABELS, MAILING, TRANSPLANTING and HONEY BOXES, and deals in LABEL WIRE.

Write for price list. *BATAVIA, ILL.*

BLOOMFIELD, N. J.—Phineas J. Ward, for many years a wellknown and prosperous florist of this town, died on April 3, aged 75 years.

CAMDEN, N. J.—M. P. McCaffrey, owner of the West Moorestown greenhouses, was arrested on March 29th on a charge of forgery preferred by John Leworthy, a Moorestown business man.

PORTSMOUTH, N. H.—Easter trade in Portsmouth was decidedly the best we ever had, the whole amount of trade done being from 25 to 35 per cent larger than that of last year. The increase was principally in plant sales. There was an almost entire absence of any demand for designs, loose flowers being in nearly all cases ordered. Harrisii lilies were in greater demand than ever and the stock in this market was first-class.

LOUISVILLE, KY,—A daily paper reports that "George and Frank Morat have sworn out a distress warrant in Magistrate McCann's court against F. L. Morat. All of the parties are interested in the large Morat nursery near the racecourse and the plaintiffs claim that the rent on the place has not been paid. The amount claimed as due them is $1,000, and an order of sale has been issued, and unless the claim is paid, the property will be sold on April 16."

NEVADA, MO.—Arrangements have been made for a chrysanthemum show here next November to be given under the auspices of the Epworth League. The League has made arrangements with florist C. W. Talbot to supply one chrysanthemum plant now to one child in every family in this section, with instructions about growing the same to be entered for prizes at the exhibition. It is expected that about 1500 plants will be grown in this way. In addition Mr. Talbot will make a display of about 800 plants of his own growing. The local press has given the project quite a send-off.

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MATERIAL FOR GREENHOUSES.

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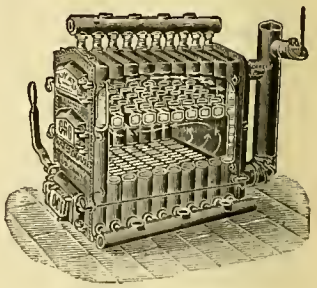
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ROYAL HEATERS

THE RIGHT KIND of BOILER for a GREENHOUSE.



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"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

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Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

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25 PER CENT. OFF for cash with order until further notice. A large stock on hand of good, strong pots. PRICE LIST, for any number:

1¾-inch pots, per 100,	$3 00		3½-inch pots, per 100,	$7 25	
2 -inch pots, "	3 25		4 -inch pots, "	9 00	
2¼-inch pots, "	3 50		5 -inch pots, "	13 80	
2½-inch pots, "	4 00		6 -inch pots, "	22 00	
3 -inch pots, "	5 00		7 -inch pots, "	35 00	

HILFINGER BROS. POTTERY,
Largest in the State. FORT EDWARD, N. Y.
August Rolker & Sons, 136 & 138 W. 24th Street, New York City, New York Agents.

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JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

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WATER

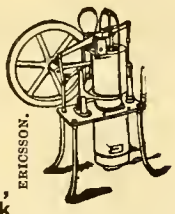
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HOT-AIR PUMPING ENGINE.

Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.



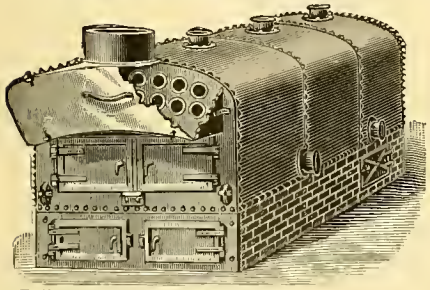
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NEW YORK, N. Y.

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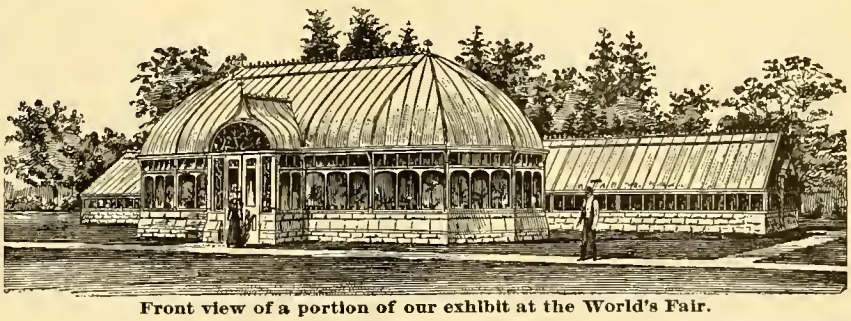
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STEAM AND HOT WATER HEATING ENGINEERS.

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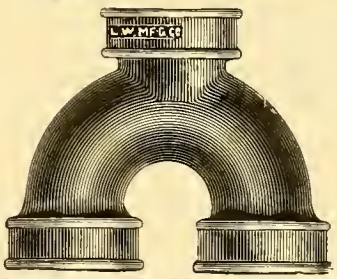
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Greenhouse Pipe and Fittings.





Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST.

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

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L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

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NATURAL GAS MADE GLASS,

FOR GREENHOUSES.

Write for latest prices.

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VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

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Note—Imported Glass is used in the best grade of Greenhouse building

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

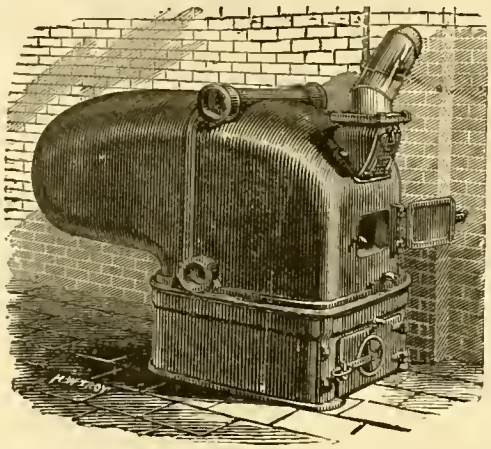
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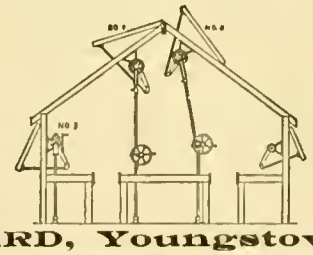
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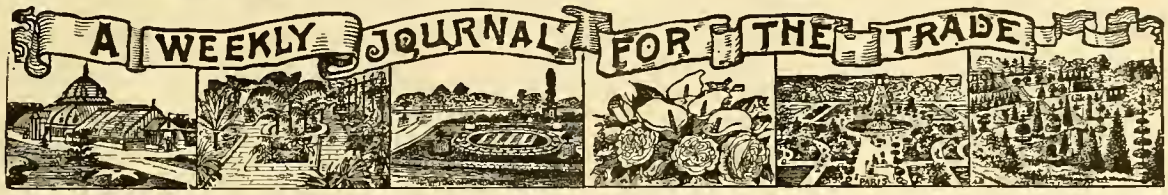
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Vol. IX. **CHICAGO AND NEW YORK, APRIL 19, 1894.** **No. 307**

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MEADVILLE, PA.—Easter trade was very good, far better than we thought it would be. Prices about the same as last year.

PORTLAND, OREGON.—Easter trade was 20% larger than last year. Retail prices about as usual at the season. Supply was equal to demand. Quality superior. Increased call for violets, roses and carnations.

CINCINNATI.—Easter trade was 25% better than last year. Prices not so high. Supply was not equal to demand, especially roses and carnations. Quality was superior. Marked increase in the call for roses and carnations.

COLUMBUS, O.—Easter trade was somewhat of a decrease from last year. Prices lower, especially on bulbous flowers. Could have sold more roses, carnations and violets. Roses were not as good as last year in quality, other stuff better. Increased demand for roses and violets. More call for blooming plants than ever before.

Books on Gardening.

[A paper read before the Gardeners' and Florists' Club of Boston, by B. M. Watson, Jr. of the Bussey Institution. With a list for American readers, proposed for emendation and correction.]

Plant growing is an art; it is not a science, nor is it likely that within any reasonable time garden craft will take such rank. It is however, quite proper to speak of scientific gardening, meaning by this that it is practiced with an appreciation of all sources of information which the art in its present stage can furnish. The knowledge which the present generation of gardeners possess has been attained from the experience of past generations of gardeners, sometimes handed down by word of mouth; sometimes recorded in print. It is quite possible for a man to have a good knowledge of plant growing without ever having read a book; in my opinion it is not equally possible to obtain such a knowledge from books alone. Therefore, to avail ourselves properly of all our resources in this art, one must have first acquired fr m some competent person a certain amount of practical instruction, after which, if of average ability, he is quite able to increase his knowledge, and extend it in directions different from those taken at first; that is, one who knows how to grow vegetables can easily learn how to grow flowers; it is not difficult, after the first lessons have been learned, to branch out in many directions.

It is for men who can grow plants that books on gardening are written; there is no horticultural primer; the A B C must be learned orally, and sometimes these words are hard, from one who has attained his knowledge in the same way, and who may or may not have increased his original information by his own faculty of observation, and his power to reason from cause to effect. For a man who has had practical experience in plant growing books are invaluable; a few sentences here, a chapter there, may save weeks of labor; one can thus profit at minimum cost with maximum result from the experience of other men.

As the question: What are good books on gardening in its widest signification for men who wish to become gardeners, or who wish to increase their information? is frequently asked me, I take this opportunity to answer somewhat at length.

I would divide these books into four different classes. First, there are general works which cover the whole ground, such as Lindley's Theory and Practice of Horticulture; Loudon's Encyclopædia of Gardening; Decaisne and Naudin's Manuel de l'Amateur des Jardins; Thompson's Gardener's Assistant. These are books which should belong to everyone who has to do with growing plants; the first should be carefully read, but the last three are rather books of reference to be read topically as occasion demands.

Secondly, there are special works on particular subjects: the first of these is soil; Johnson's How Crops Feed and How Crops Grow; Storer's Agriculture; Harris' Talks on Manures; Waring's Drainage for Profit and Health; Stewart's Irrigation for the Farm, Garden and Orchard, are all alike practical books which cannot fail to help one in either gardening or farming. They assist us to understand the important relation of plants to soil, and to provide means for improving the condition of the crop under unfavorable circumstances. By such aid many common operations of gardening are explained, and it is by the writings of men like Johnson and Storer that we may hope so to increase our knowledge of plant growing that larger profits will follow smaller investments. Gray's Structural and Systematic Botany, Goodale's Physiological Botany, Sach's Textbook of Botany, tell us how plants perform their various functions, and of what they are composed; they should be studied and read in connection with Johnson and Storer. The student of horticulture, however, should always bear in mind that it is the gardener's art to make a profitable cultivation; it is necessary not only to make a plant live, but in most cases, it is required that there shall be a return; it is not sufficient for the gardener, as it is for the agricultural chemist, that the soil is rich enough to produce fruit; he must get fruits; he must get enough to pay the cost of tillage and a little more. There is no need to reduce this to dollars and cents; if the planting is for ornament, if the cultivation is to increase our enjoyment of life, we strive to obtain a healthy plant and maintain it in good condition from first to last, not only to have a given tree or shrub, but to have such a one as will show its individuality best.

In this second class belong also books on propagation. Bailey's Nursery Book; Jenkins' Art of Propagation; Fuller's Propagation of Plants; Burbidge's Propagation and Improvement of Cultivated Plants, this last particularly helpful to those interested in hybridization; Baltet's Grafting and Budding, of which there is an English translation, in addition to what may be found on this subject in the general works on horticulture at the head of this list, will give the beginner most useful information, and may help the old practitioner by showing shorter cuts, even through familiar grounds. A little later I shall refer to books which treat of a single class of plants; it is almost unnecessary to say that in each there is always a chapter on propagation; if some of the English growers would read Lamborn's Carnation Culture and believe it, we should hear less in the English journals of layering this, now, thoroughly Americanized plant.

Plant growing naturally divides itself into cultivation under glass, and cultivation in the open air; following this indication in our list of books we find a somewhat meager choice offered in those which relate to building plant houses; indeed, if it were not for two books, one recently published, there would be little to recommend, but Prof. Taft's Greenhouse Construction is admirable, and a welcome addition to a shelf well nigh bare. Horticultural Building, by F. A. Fawkes, an Englishman, is also of assistance, if due allowance is made for difference of climate. In Hunt's How to Grow Cut Flowers, and Peter Henderson's Practical Floriculture, there are excellent chapters on this subject; Woodard's Graperies and Horticultural Buildings might also be added. In regard to methods of heating there is nothing except what is contained in the above named books and a few pamphlets; good information may be obtained, however, from the dealers, notably Hitchings of New York and Lord & Burnham of Irvington, N. Y., who publish an attractive catalogue of their boilers, with an instructive account of heating by hot water.

For books on growing plants under glass there are the two named above by Peter Henderson and Hunt; Williams' Choice Stove and Greenhouse Plants and his Orchid Growers Manual; Burbidge's Cool Orchids, also many which consider a single species only, as Burbidge or Morton on the chrysanthemum; Lamborn or Dodwell on the carnation. For growing fruit under glass there is the Orchard House, by Thos. Rivers; and for mushrooms, Falconer's Mushrooms, and How to Grow them.

Growing plants in the open air naturally presents many different phases. An excellent list of books pertaining to laying out and design; i. e. landscape gardening, was made by the late Mr. Henry S. Codman, and published first in the *American Architect*, afterwards in *Garden and Forest*, Vol. III, page 131. Of this list I will name one only here, and that is L 'Art des Jardins, by Edouard Andre. It is unfortunate that there is no English translation of this remarkably complete work, wherein is set forth, in most complete detail, the various operations required in planning and establishing the modern park or country place. I know of no good book on trees and shrubs in English for ornamental planting; Du Breuil's Culture des Arbres et Arbrisseaux is good, but written for a milder climate, nor does it include many plants of recent introduction, and many neglected American plants which are likely to be of great importance in the near future in this country. The four German books given in the list below are highly recommended. There are plenty of books on roses; read Ellwanger and Reynolds Hole; Rand on Rhododendrons might be added. In forestry there is Hough and Jarchow, which are new, and Fuller of recent date. Forestry in this country is too young to enable one to give much definite information as to the management of existing woodlands, and the best trees to plant for timber. Its importance cannot be overestimated and all literature on the subject should be considered.

For the flower garden there are plenty of books; for growing herbaceous plants get Robinson's English Flower Garden, Wild Garden, and Alpine Flowers; Allen's Bulbs and Tuberous rooted Plants; for bedding out, use Peter Henderson's Gardening for Pleasure; Robinson's Subtropical Garden and Gleanings from French Gardens; Mrs. Loudon's Ladies' Flower Garden for Annuals, and John Robinson's Ferns in their Homes and Ours. Avoid books with highly colored lithographs showing how coleus, alternanthera and echeveria can be planted in countless numbers in intricate designs.

For growing fruits Downing's Fruits and Fruit Trees of America; Barry's Fruit Garden; Black's Cultivation of the Peach, Pear and Quince, Fuller's Grape Culturist, and Moore's Orange Culture are recommended. Roe's Success with Small Fruits gives efficient directions for growing strawberries, raspberries, blackberries, currants, etc. In order to obtain good vegetables no better assistance can be found than from Peter Henderson's Gardening for Profit. All Henderson's books are boons to American gardeners, and this, the first, is in some respects the best; although intended more for market gardeners than for private places it is equally valuable for both. Vilmorin's Vegetable Garden, Burr's Garden Vegetables, and Oemler's Truck farming for the South make a very complete list, but for specialists there must be added such pamphlets as the New Onion Culture, Kalamazoo Celery, and Gregory on Squashes. I know of no good book on nurseries, nor is there one on hedges and hedge plants; the barbed wire fence has ended this once flourishing industry; the nurseryman who grows hedge plants should receive government protection from the cheap labor of the machine in the machine shops.

I will now ask your attention to a third and important class of books, namely, those which have to do with nomenclature, many of which also serve other purposes, giving cultural directions, the habitat, date of introduction, synonyms, and generally useful information about plants. The first and best of them is Nicholson's Dictionary of Gardening, almost indispensable to one who grows any great variety of plants, adopted, I believe, as the standard authority of names in this country by the Society of American Florists at their last convention. Some of you older men may prefer the Treasury of Botany by Lindley and Moore, but much more is obtained from Nicholson. To use either of these books, however, the name of the plant must be first known; if a new and unknown plant is presented it is not possible to identify it by the aid of these dictionaries; we must have recourse to a botany. For wild plants east of the Mississippi and north of Mason and Dixon's line the authority is Gray's Manual. Gray's Field and Garden Botany gives the commonest of the wild flowers within these limits, besides many cultivated plants; a new edition is now nearly ready which will contain some additions. Watson's Botany of California covers the plants of the Pacific slope, and Chapman's Botany of the Southern States includes plants not found in Gray. Every country has its floras, but these make a library by themselves, which is hardly possible for many persons to obtain. There is one book, however, within the reach of gardeners, which contains descriptions of a large number of cultivated plants; this is Loudon's Cyclopædia of Plants; with a little care and study it is possible to obtain from this the names of the older garden plants when other sources of information fail. The Linnæan arrangement is used, which is somewhat awkward to the novice, but this trouble can easily be overcome. Smith's Dictionary of Economic Plants gives much valuable information about such plants as are used in the arts or manufactures. Miller's Dictionary of English Names of Plants is a convenient reference book where the proper name is unknown or where the same plant is known under different common names in different places.

It seems hardly fair to ourselves to leave this matter of nomenclature without saying a few words about the changes in the botanical, as distinguished from the common, names of plants which is now going on. If the common names of plants were at all fixed, or if there was a possibility of ever establishing them, the changes in the proper names would not matter. It seems right that a protest should be entered in behalf of the gardener against these constant changes in the only names by which plants can be really distinguished. Is there not some right acquired by custom, by long usage, a trade mark as it were, by which a plant can keep its name? or is the name to be forever at the beck and call of any botanist who has time and inclination to hunt through old volumes and herbaria, and, finding that the first record of its discovery has been overlooked, correct the mistake by re-christening the plant wholly or in part? This renaming is a nuisance to the gardener when it affects plants in common cultivation.

There is a fourth class of books of practical use to the man who desires thorough equipment in garden lore, quite distinct from most of the titles given above, since they give no explicit directions for plant growing, but rather inspiration to grow plants. Among them, and this part of my list is curtailed, are Howe's Garden, as considered in literature by certain polite writers; Thistleton Dyer's Folk Lore of Plants; Ellwanger's Garden's Story; Sedden's Garden Craft Old and New; Blomfield's Formal Gardening in England; Mrs. Van Rensselaer's Art out of Doors, and Robinson's Garden Design and Architect's Gardens. Robinson's Parks and Gardens of Paris belongs partly here and partly among the books of a more technical character. These books, and many more of the same kind are good reading for gardeners; one need not do everything they find advised, nor take sides in the somewhat heated discussions on the merits of natural versus artificial treatments which will be found in Robinson and Blomfield; these books are full of suggestions, some of which can be carried out, some passed over, and others adapted to different circumstances and surroundings. An important type of garden literature has not yet been mentioned, and briefest consideration must suffice for the present; I mean the horticultural journal of the present day. Our gardening papers are so good that books are likely to be overlooked; in them we find the very latest intelligence about new introductions and improved methods of cultivation; for one important subject, the diseases of plants, vegetable pathology, the papers are almost our only source of information. That at least three new journals devoted to general gardening have established themselves upon a firm footing within the last few years in this country is sufficient proof of their importance in practical plant growing. The large circulations and replete advertising columns of the trade journals indicates their usefulness and success.

LIST OF BOOKS RECOMMENDED BY PROF. WATSON.

1. GENERAL:

Lindley: The Theory and Practice of Horticulture. English.

Loudon: Encyclopædia of Gardening. English.



DISPLAY OF CYCLAMEN BY GEO. M. ANDERSON AT THE SPRING EXHIBITION OF THE MASSACHUSETTS HORT. SOCIETY, BOSTON.

Decaisne et Naudin: L'Amateur des Jardins. French.
Thompson: The Gardener's Assistant. English.
II. SPECIAL:
a. Soil;
Johnson: How Crops Grow.
How Crops Feed.
Storer: Agriculture.
Harris: Talks on Manures.
Waring: Drainage for Profit and Health.
Stewart: Irrigation for Farm, Garden and Orchard.
b. Plant life:
Gray: Structural and Systematic Botany.
Goodale: Physiological Botany.
Sachs: A Text-book of Botany. German, translated.
c. Propagation;
Burbidge: The Propagation and Improvement of Cultivated Plants. English.
Bailey: The Nursery Book.
Jenkins: Art of Propagation.
Fuller: Propagation of Plants.
Baltet: Grafting and Budding. French translated.
d. Cultivation under glass.
1. Building plant houses.
Taft: Greenhouse Construction.
Fawkes: Horticultural Building. English.
Woodard: Graperies, etc.
2. *Tender plants.*
Henderson: Practical Floriculture.
Hunt: How to Grow Cut Flowers.
Williams: Choice Stove and Greenhouse Plants. English.
Orchid Grower's Manual. English.
Burbidge: Cool Orchids. English.
The Chrysanthemum. English.
Morton: Chrysanthemum Culture for America.
Falconer: Mushrooms and How to Grow them.
Rivers: The Orchard House. English.
e. Cultivation in the open air.
1. Planning and laying out.
Andre: L'Art des Jardins. French.
Codman: See list of books on landscape gardening. *Garden and Forest*, vol. III, p. 131.
2. *Trees and shrubs.*
a. For ornament.
Du Breuil: Culture des Arbres et Arbrisseaux. French.
Koch. Dendrologie. German.
Lauche: Deutsche Dendrologie. German.
Koehne: Deutsche Dendrologie. German.
Dippel: Handbuch der Laubholzkunde.
Ellwanger: The Rose.
Reynolds Hole: A Book about Roses. English.
Rand: Rhododendrons.
b. Forestry.
Hough: Elements of Forestry.
Jarchow: Forest Planting.
Fuller: Practical Forestry.
Descars: Tree Pruning. French translated.
c. Fruits.
Downing: Fruits and Fruit trees of America.
Barry: Fruit Garden.
Black: The Cultivation of the Peach, Pear and Quince.
Fuller: Grape Culturist.
Moore: Orange Culture.
Roe: Success with Small Fruits.
3. The flower garden.
a. Herbaceous plants.
Robinson: The English Flower Garden. English.
The Wild Garden. English.
b. Bedding plants.
Henderson: Gardening for Pleasure.
Robinson: The Sub-Tropical Garden. English.
Gleanings from French Gardens. English.
Allen: Bulbs and Tuberous Rooted Plants.
Mrs. Loudon: The Ladies' Flower Garden. English.
John Robinson: Ferns in their Homes and Ours.
4. The kitchen garden.
Henderson: Gardening for Profit.
Vilmorin: The Vegetable Garden. French translated.
Oemler: Truck Farming at the South.
III. NOMENCLATURE AND REFERENCE.
Nicholson: Dictionary of Gardening. English.
Lindley and Moore: Treasury of Botany. English.
Gray: Manual of Botany.
Field and Garden Botany.
Loudon: Encyclopædia of Plants. English.
Smith: Dictionary of Economic Plants. English.
Miller: Dictionary of English Names of Plants. English.
IV. MISCELLANEOUS.
Howe: The Garden. English.
Thistleton Dyer: The Folk Lore of Plants. English.
Ellwanger (G. H.): The Garden's Story.
Van Rensselaer: Art out of Doors.
Robinson: Garden Design and Architect's Gardens. English.
Parks and Gardens of Paris. Eng.
Sedden: Garden Craft Old and New. English.
Blomfield: Formal Gardening in England. English.

Cyclamens.

Our illustrations represent—not as clearly as we would wish, however—the exhibit of cyclamens made by Geo. M. Anderson of Milton, Mass., at the spring show of the Mass. Horticultural Society. Mr. Anderson's cyclamens have been famous about Boston for some years, and those exhibited on this occasion were pronounced by good judges to be the finest ever seen in this country. Flowers of the white variety represented in our illustration of a single specimen measured 2½ inches long, or 5½ inches from tip to tip of the expanded petals. In response to our request for a few lines on cyclamen culture, Mr. Anderson sends the following practical to-the-point notes:

"Taking into consideration the fact that most of the readers of the AMERICAN FLORIST are men who are well posted in the general care and treatment of such plants, it is, I think, needless to go into all the little details, so I will give you merely a brief outline of a few things I do which I believe are not generally done.

"I grow my plants in a greenhouse all summer; I can attend to them better and get right in with them and see what they want.

"I do not believe in shading with racks; even if the midday sun should cause the plants to wilt a little, they require the light. I shade very lightly with lead and kerosene the first of the season, applying a second coat as the season advances.

"I believe in using rich compost from the start, making it a little richer at each shift. My compost is good turfy loam and cow manure, as rough as the size of the pot will allow and a liberal supply of bone meal and charcoal. I never use liquid manure, not because I think it would hurt them, but for the reason that I think good rich soil from the start, good drainage and an occasional watering with lime water is better.

"In carrying over the bulbs the second year I like to ripen them just enough so

that they have still a few green leaves left on them when they commence to grow."

A correspondent who visited the greenhouses where Mr. Anderson has charge wrote us a few weeks ago as follows:

"The glory of the place was the cyclamens, and they were attracting all sorts and conditions of flower lovers and dealers. Mr. Anderson may well feel proud of his plants; they are the finest ever seen around Boston or anywhere else. One house contained 5,000 plants and were a sight that one cannot forget. Some 30 plants of the best reserved for the March exhibition in Boston will show for themselves to what perfection the cyclamen can be grown as a decorative plant. A written description is of little use in trying to describe those plants and flowers; they ought to be seen to get anything like an idea of their gorgeous beauty.

"Another feature of the place, and not one of the least, is the mushrooms, for which it is noted. From beds under the benches in two houses $500 worth had been sold the past winter. In two old silos fitted up with many benches for beds and heated with boiler and pipes the mushrooms were innumerable; some of the later made beds had not yet begun to yield. Mr. Anderson has no donbt but 5,000 pounds will be gathered as the season's crop by the time the beds give out in the warm weather."



Carnation Notes.

Indoor carnations will now be requiring plenty of water and constant attention to the syringing, so that the spider does not get a start on the plants. If they are badly crowded, as they are liable to be at this season, it will pay to thin them out either by thinning the plants themselves or pulling some of them out entirely. A good plan to keep them in good healthy shape is when you are cutting the flowers to cut well down into the plant and get a good long stem and thin the plant at the same time.

If you find the flowers are not coming up to the mark, a little manure water given them twice a week will help them out all right. You will want as good or better flowers than you have been cutting all winter, because you have not only a probable extra supply of carnations to compete with, but the spring flowers will be coming into the market and you must have good flowers to hold up your end of the trade.

Do not let the plants get crowded by weeds, and give them plenty of ventilation. When the temperature does not go below 50° at night outside it is best to leave the ventilators open all the time day and night. Attend to the disbudding; in short give the plants all the attention they need, and whenever it does not pay to grow them right throw the plants out; in some places they will pay all summer, others they will not pay after the first of May.

When the sun begins to get very hot, give the houses a light coat of shading; they will then require less watering and less attention all around, and your flowers will hold better. After May 1 the flowers should be pulled daily to put them on the market in good condition, and they should be put on in no other way.

Some florists advocate the taking off of either all or part of the glass during the summer, but they might as well be outside entirely, as every rain will injure the flowers to a greater or less extent. The houses should have an abundance of ventilation, but the roof should be on to keep out the rains and winds.

There is no question from now on but that benches are not in it with solid beds; the difference in favor of solid beds is as marked as day and night. In fact I shall stick to my solid bed system for most varieties, as by very careful comparison the season through I am convinced that better results can be had from solid beds. The flowers are better and possibly five per cent more of them, the great gain being in their quality. The plants are always so nice and clean and vigorous in the solid beds that they are a pleasure to look at. I can't say as much for the benches, although from what I have seen in other places mine are doing as well as the average bench carnations. Whether it is in my soil or what it is I would not attempt to explain, but those are the results looking backward, and looking forward there is prospect of a fine crop of good bloom for an indefinite period yet. When one is growing nothing but carnations he is not anxious to see the season close too early and I am satisfied that my benches will not pay for their care after May 1. My case may be an exceptional one, but I don't think it is. However, if you are having good results from benches, don't follow the old proverb "What is good for the goose is good for the gander." That does not apply to carnation culture; every one has to study his own soil and conditions. ALBERT M. HERR.

Carbolic Acid for Carnation Rush.

ED. AM. FLORIST: We can attest to the efficiency of carbolic acid as a remedy for carnation rust. A 1% solution thoroughly applied will destroy all rust with which it comes in contact in two applications. Such is our experience with some badly affected stock. We believe that in advanced stages of the disease the acid will prove an effective agent in checking any further spread of the same. We have not used any of the popular remedies and judge from the conflicting reports that they can not show very decided results.

For young plants in pots or flats would advise a weaker solution, as unless very carefully sprayed the roots might be damaged by the soil taking up too much of the acid. The 1% solution is not in the least injurious to young foliage, and only a few blooms (Daybreak) were damaged.

Our practice was to cut the flowers close, then syringe thoroughly from all sides, using the *finest spray possible*. We think a practical method would be the occasional use of the 1% solution to be followed by weekly applications of some of the milder remedies, as we would expect injury to roots of plants in benches or beds if this stronger solution were continued without intermission. No fear need be entertained in making one or two applications of the 1% solution to plants in beds or benches; as to the effect on flowers, we can only speak of Daybreak and McGowan, other varieties might suffer more.

The U. S. Dispensatory, 13 Ed., says of carbolic acid: "But by far the most important property of carbolic acid, both as a therapeutic and preventive agent, is its destructive influence over the lower grades of organic life, whether vegetable or animal. In a solution containing only one part of the acid in 500 of water, it instantly destroys vegetable mould, both plant and spores, and operated with equal destructiveness upon minute or microscopic animalcules."

Apropos to the subject, why do some of the leading dealers persist in sending out affected stock? "infested" would be descriptive of some. One of the novelties received was full of it, another, badly affected, a third had leaves trimmed carefully. We presume it is too much to expect that such valuable stock be discarded, nevertheless it is exasperating, to put it mildly, to the grower who has "fired" a lot of affected plants, to receive high-priced novelties that are in a worse condition than the stock thrown out. To send plants back to the shipper is one recourse though not a satisfactory one.

Glenfield, Pa. BECKERT BROS.

Mrs. Fisher Carnation.

It is with surprise that I see this grand white carnation being dropped by growers all over the country. Here it is decidedly the best white we have for profit. The photograph I send you is from a house that has been in full bloom since Sept. 15 and is to-day Feb. 1st, looking about the same as at any time during the season.

[The photo was not sharp enough to make a good engraving. The picture showed a house with a very heavy crop of bloom.—ED.]

With this variety be sure to select cuttings from nothing but the very choicest plants and it will improve every year. Many complain that it makes too many short stemmed flowers, but I found that after being slightly improved by careful selection we got no short stemmed flowers at all and no bursted flowers except a *few* during Jan. and Feb. The size is all that can be desired (2½ to 3 inches) and the stem is generally stiff enough to hold flower erect. All my flowers this winter have been cut with stems averaging over 12 inches and some 18 and even 20.

My manner of handling is as follows: The choicest plants are selected at planting time (Sept. 15) and planted separate. After Christmas crop is cut we overhaul and cut out all but the choicest wood, again tying up carefully. Feb. 1st to 15 we put in our cuttings and only from pure white, long, stiff stemmed flowers. I have none to sell. CHAS. POMMERT.

Greenfield, O.

Carnation Grace Wilder.

I have yet to be convinced that there is a better carnation in existence to-day than Grace Wilder, well grown. Notwithstanding the frequent condemnation which it receives and the praise given to the newer sorts, I must say that I do not want any better flowers than I get in Grace Wilder grown as it is being done this season by John Reid of Jersey City, and in color it certainly cannot be beat.

New York. GEO. M. STUMPP.

WE HAVE RECEIVED from Mr. H. Taylor, Dunkirk, N. Y., a sport from Buttercup carnation which shows a strong departure from the parent plant. It is pure white, strongly streaked with carmine down the center of each petal, and a few flakes on the edge. Since the advent of Helen Keller we can hardly say that the striped varieties do not take in the trade, and the one under comment is certainly an attractive flower, with good fragrance.



SPECIMEN WHITE CYCLAMEN. GROWN BY GEO. M. ANDERSON.

CRIMSON SPORT is a new carnation, originating with J. L. Dillon of Bloomsburg, Pa. The flower is a good size, deep velvety crimson, and the blooms sent us were in fine condition after their journey. They appear to hold their color without blackening very well.

Azaleas, Primroses, Cyclamens, Ipomæa, Crinums.

A subscriber from Newark, N. Y., wants to know the best way to carry over azaleas for another year. This subject has been often written up in your columns and by none better than Mr. James Dean in his paper read before the Society of Am. Florists in Boston, in August, 1890. My method is as follows: With all plants unsold, or with those I did not want to sell the first year of importing, I place in a temperature of 55° to 60° at night in the month of April. About this time they are making their growth for the following season's flowers. Keep them well syringed daily and never let them wilt for want of water. When they are making their growth in the spring is the time to do the pinching which is necessary with some of the shoots to get them into a compact, neat form. About the end of May choose a place to set them outside where they will never be troubled with water under the pots. Surround the pots with some material such as tan bark, spent hops, coal ashes or any material that will keep the sides of the pots covered so that evaporation does not go on too rapidly. This is I think much better than plunging them in the soil. Never let them suffer for water during the summer, and in the hottest weather they will need watering twice a day; syringing with hose will always do them good. Let them be fully exposed to the sun when plunged outside. Bring them into the houses before there is any danger of frost. The best soil for azaleas is a good light loam with one-third or one-half real leaf-mould, and a little sand added. If they are imported plants and have been properly potted when received they will need no more pot room for at least 3 years. They are very slow to take hold of the new soil. Where large quantities are handled they can be taken out of the pots in May and planted in some rich soil and the surface mulched with hay or straw. They will need less attention during the summer than those kept in pots, and we are all aware how easily and with what little harm they can be lifted and potted in the fall, but then you have the extra labor of potting again in the fall.

Another question is also referred to me from Burlington, Ia. "Practical instruction how to grow primroses and cyclamens" are wanted. These subjects have also been well ventilated in your paper but the knowledge of one who has been moderately successful with the above popular plants will perhaps bear repetition. To have primroses in flower in mid winter, and then is when they sell best, sow the seeds about the end of May. Sow carefully and cover very lightly and place the seed pan in the coolest place you have in your houses. In about 5 weeks they will be ready to go into a 2-inch pot. If you don't have a house that heavily is shaded, with plenty of ventilation, then place the little plants in a cold frame with the sash raised back and front, and plenty of shade. In August they will need a 3-inch pot and in October or early November they can go into a 5-inch, or if not a very strong plant, a 4-inch. When dark weather comes on they will need the lightest house and cool, about 45° at night is just right. At the last shift get them low enough down so they are not shaky at the neck without getting the crown covered. This will obviate the need of sticking toothpicks round the crown to keep them upright, as I have seen them doing in England. Avoid in the soil anything of a heavy or close nature; plenty of leaf-mould and loam and good drainage. The primrose family is not troubled with either aphis, red spider, thrip, mildew, or any other of the many enemies to which so many of our cultivated plants are heir. One of the most important points of primula culture is to get good seed. The great bulk of the seed offered to the trade is rubbish and not worth the time spent in its growing. Take pains to get a good strain.

Cyclamen persicum and its improved varieties is now a very popular plant, as it deserves to be. It is invariably a satisfactory plant in a dwelling house. The seeds should be sown anywhere from October until January. The earlier you sow them the larger the plants can be grown by the following winter. As soon as the first leaf is perfectly formed and the little bulbs are the size of small peas, transplant into 2-inch pots and keep growing in a night temperature of 50° to 55° and plenty of light. When they have made good roots in the 2-inch shift into a 3-inch. In the 3-inch put one inch of broken up charcoal for drainage. If you wish to have the largest plants that can be grown in the time, you can in May or June make a mild hotbed and plunge the plants in some good material in the hotbed, keeping the shaded sash raised back and front so that there will be plenty of air over them all the time. In September they should be taken into the house and should then get their last shift, which must be according to the wants of the plants; a 5, 6, or 7-inch is the most useful size. Well grown plants in 5-inch pots are the best for market. It is absolutely necessary that cyclamen be well drained and charcoal will be found as cheap as anything. A good loam, not too light, with a fourth of well decayed cow manure and a little old pounded up mortar, will grow them well. Just before flowering weak liquid manure will help them very much. At all stages of their existence while growing, a light dusting with the syringe is most beneficial, and unlike the primrose they are troubled greatly with greenfly, so they must be kept constantly and regularly "smoked." In the winter they don't like a cool damp house; 55° at night is about right, in a clean dry atmosphere. Cyclamen are troubled with a rust on the leaves and the way to prevent it is to keep them in a healthy growing state. If you have not sown seeds this past winter, purchase some young plants from some good grower for next winter's sale.

From Bethlehem, Pa., comes the query "how to start Ipomæa Mexicana." I am not acquainted with the species. It is one that will no doubt flourish in our summer months out of doors. Start the tubers in small pots of light soil and in June plant against a lattice or some support in a sunny sheltered position.

From Newark, N. Y., comes the question "How to treat crinums in pots." They should be given plenty of pot room, a 12 or 15-inch is not too large for a good plant. A lumpy mixture of good loam, sod, and peat if you can get it, and a good addition of broken charcoal, all mixed together is a compost that they will thrive in. Spring is the best time to repot or divide them. During the summer they delight in the high temperature and should be copiously syringed. After they have flowered water should be withheld during their resting period, which is winter time, but not enough to cause the leaves and bulbs to shrivel. When not convenient to give them a larger pot or tub they should receive a rich top dressing in the spring and liquid manure during the summer. WM. SCOTT.

Two Little Mistakes.

Having this past season had an experience with two articles, one a fertilizer and the other an insecticide, it appears to me that I may be the cause of preventing others from falling into the same mistakes. As they both occurred on my own place there is no theory or hearsay about it, and here they are:

Having used nitrate of soda in liquid state on roses and other plants with apparent good results, I thought last fall I would try some in its natural state on carnations. I was planting a house of the same, the variety was Grace Wilder. I used no animal manure of any kind as I

was late and had no chance to get any, for which from the way the carnations have grown and flowered I have nothing to regret. In place of the manure I dusted the soil as it was brought in with bone dust. Having some nitrate of soda on the place, I left one space between iron supports, about 8 feet by 6, holding perhaps 75 plants, and on this space put about 2 quarts of the soda and raked it in. I was careful to confine it to exactly a defined line because I wanted to see the result, and on that space I put no bone dust. Two weeks after planting the Grace Wilders began to turn brown and in two months they were dead, while on each side of them the carnations were growing as healthy carnations should grow. I was not at all vexed over this, in fact I was much pleased, for I consider I got off very cheap, and this little space 5x6 may have saved me many dollars.

The other experience was with Fostite and violets in November last. I had a bench of violets, Marie Louise. They were not the premium plants of the country but they were picking up fine and would no doubt have been a source of profit to me, when in an unlucky moment a youth (my own) who had been dusting carnations with Fostite, from the fertility of his brain and without orders thought the violets would be benefited by a dose of Fostite and so they got it. It was a good heavy dusting but nothing more than would be perfectly harmless to carnations. It killed every leaf dead and where it reached the heart it killed the plant. In two days a perfume pervaded the house which was not the sweet odor of violets but of decayed vegetables. It is simply death to violets. This is the more strange because I have found Fostite the best and easiest applied of all antidotes for carnation rust and it does not do the slightest harm to the plants in any way. WM. SCOTT.

Philadelphia.

G. E. Luffmann, of Chestnut Hill, has sold out his establishment to Irwin McCallum, who will remove the greenhouses to Ambler, Montgomery Co., where the business will be carried on in the future by Mr. McCallum, with Mr. Luffman as manager. Additional glass will be erected from time to time as it is the intention to grow flowers in quantity for the trade. Carnations will be the leading feature for next season. Mr. McCallum is a wealthy manufacturer and has abundant means to carry out his ideas.

The early part of the past week was very disagreeable, there were violent winds, rain, snow and sleet, and taken all together old Probs. could not have done much worse. Friday and Saturday the skies cleared, the weather was fine and the week wound up with two busy days. "Suppose this weather had come two weeks ago," was a remark that made many interested parties send up a little silent prayer when they thought of what might have been.

Prices of stock remain much the same as last week with the exception of carnations, which have dropped a half cent and are now $1.50 per hundred for good ordinary; the fancies still retain the old prices however, the growers of these having apparently formed a sort of trust or mutual agreement society. Sweet peas too, are down a little, the best being $2 per hundred, and as they are becoming quite plentiful this figure may not last long.

In blooming plants the cold frame forget-me-not has made its appearance and sells well. J. Westcott has some very pretty English primroses, the best we have seen. There are still a few genistas, hydrangeas, daisies and lilies left from the Easter stock; these with pot geraniums and roses about make up the list.

Hyacinths and tulips are now in full bloom outside and beds of these in the lawns, which have just had their first clipping, are sure indicators that spring has arrived.

There was a meeting of the trustees last Friday afternoon to confer with the gentlemen who are anxious to furnish the money to rebuild Horticultural Hall. Some of the trustees, on account of an offer of $300,000 which they have had for the property, opposed rebuilding; they think they can with this capital obtain for the society a library building and meeting room and in addition an income of $10,000 annually, which, with the dues of members and the admission fees of the exhibitions, the society would be established on a sound financial basis and better able to advance the work of horticulture and floriculture than ever before. There is to be a meeting of the society in which the matter in all its bearings is to be discussed, as the trustees do not wish to refuse the offer they have unless the proposition to rebuild has the endorsement of a large number of the members of the society.

Robert Craig says there is a disease among the kentias; that they are dying outright or in part; a plant will be found all dried and shrivelled as if it had been frozen, while in some cases only a leaf or two is affected. The disease is not believed to be contagious and but little is known about it, as it has only recently made its appearance.

A carnationist in speaking of his plants recently said that early in the winter, he noticed that in one of his houses the plants seemed crowded and the flowers were getting small and weak stemmed. As an experiment he removed every other row across the bench. An improvement was at once noticeable and during the balance of the season his best stock has come from this house.

Walter Cliffe, son of David Cliffe of Germantown is about building a range of houses near 53rd and Market Sts. K.

Chicago.

The season for the sale of cut flowers is fast drawing to a close, still with us in the west at least there remains about two months more in which we might expect to do a fairly active business, in fact the spring months and up to about June 20, was once considered the most profitable season for the retail dealer, and for that matter the growers also. But things have changed somewhat in the last four or five years. The spring trade in the cut flower line is not what it used to be. As to the cause, opinions seem to differ. Many of the dealers attribute the falling off of trade in the legitimate channels to the fakir, who undoubtedly is at this season of the year most active. There is no doubt but what the Greek, in multiplying numbers with each succeeding season, is making his presence felt more and more as quite an important factor in the market, yet others trace the cause of the diminishing spring trade to the fact that the society season is closed now-a-days at an earlier date than was the case in former years. Whatever the cause the fact remains that the dealer cannot rely in a very large degree on the remaining six or eight weeks.

Trade last week was very dull, particularly as regards the demand in the city. A fairly active shipping trade is reported by the wholesale men, but this proved entirely inadequate to absorb the enormous number of roses that all of a sudden have swamped the market. Every grower seems to be on with a full crop; whole wagon loads of stuff are dumped on the market, causing a glut such as hasn't been noted for many a day. Prices of course are away down. Mermets, Brides, Perles, La France and Woottons are offered at $15 to $20 per thousand, and few buyers at that. A few extra lots sell at a point or two higher. Meteor goes at $2.50 to $3, if select. Jacqs are down to $8 for the best, 5 to 6 for seconds. Hybrids 12 to 18; the latter figure is paid for very fine Brunners and Baroness Rothschild. Beauties hold their own at $25 for selected long stems, $18 for good seconds. Beauties, by the way, have improved greatly the last week or two; some of the flowers sent in now are really fine.

Carnations, except white, are plenty but not overstocked. The latter is still scarce. Common sorts, colored, are quoted at $1, white 1.25. Daybreak brings $2, and Buttercup of which a few fine blooms are offered, sells at $3.

Harrisii are slow at 4 to 6, Romans $1.50, valley 2 to 3, violets 75c to $1, mignonette 1.50 to 2.

Sweet peas are coming in quite freely, mostly of the Blanche Ferry and Nellie Jaynes variety. These meet with ready demand at 1.25 to 1.50 per 100.

Owing to a clerical error the meeting of the stockholders of the Cut Flower Exchange last Friday came to naught. The call should have been made for an adjourned meeting, but instead was made for a special. Under the by-laws a ten days notice is required for such a meeting and as only five days notice had been given no legal action could be taken to wind up affairs as had been intended, so an adjournment was taken subject to a call in legal form. There is no doubt that the exchange in its present form will go out of existence on May 1. All the members however who have done business on the exchange heretofore, with the exception of the commission men, will reorganize and start up again. A room large enough to accomodate the present membership has been secured on the second floor of Nos. 61 and 63 Wabash avenue. The business will be carried on in the same manner as before but under a different title and with the elimination of the commission feature. Growers only will be allowed to do business.

T. J. Corbrey has gone to California on a four weeks pleasure trip.

J. T. Anthony will move to 2114 Michigan avenue about May 1.

At the last meeting of the Florist Club little but routine business was done. In view of the dissolution of the Cut Flower Exchange the trustees of the club were instructed to arrange for new quarters. Mr. J. T. Anthony offered a large room in connection with his store on Michigan Avenue, which would be very desirable were it not so far south. The trustees will probably ask that the final selection be made by vote of the club at the next meeting and it is hoped that the attendance will be large and a full expression of opinion had. It was decided that when the club takes possession of the new quarters, wherever they may be, there should be an old fashioned house-warming and a good time.

There were not sufficient to make a quorum at the last meeting of the Horticultural Society, but matters connected with the coming chrysanthemum show

were discussed informally, and a meeting of the executive committee will be called at an early date to take final action regarding a place to hold the exhibition.

Mr. John Speelman, of C. J. Speelman & Sons, Sassenheim, Holland, was a recent visitor.

Boston.

Trade in general has been very quiet with the florists during the past week. The weather has been the worst of the season and seems to have put a damper on everything. There is considerable stock of inferior quality on the market and this goes slow. The best demand is for first-class Jacqs, Brunners and other large roses and whatever is offered in this line goes readily.

Mr. W. H. Manning was awarded a first-class certificate of merit for a new yellow-barked Osier Dogwood (Cornus stolonifera, var. aurea) which was recently found at Stockbridge. It makes a fine contrast with the common red-barked variety and as such will undoubtedly become valuable.

The bowling enthusiasts of this neighborhood are beginning to talk business regarding the prospects for Atlantic City next summer. A good team is sure to turn out on that occasion.

A. W. Bennett of Schenley Park, Pittsburg, Pa., and George C. Watson of Philadelphia have been in town. We hope they will both stay longer next time.

New York.

The Morgan-Hamilton wedding which took place on April 12th, the bride being the daughter of Mr. J. Pierpont Morgan, was undoubtedly the leading society event of the season, and the floral decorations by Thorley at St. George's church and at Mr. Morgan's residence were correspondingly magnificent.

At the church the spacious chancel was turned into a perfect garden of lilies, hydrangeas and lofty palms, the railings being heavily decorated with asparagus, white roses, lily of the valley and other white flowers in profusion. On the pew ends down the whole length of the center aisle were large clusters of lilies, hydrangeas and hybrid roses fastened with bows of white ribbon, and the font was a great mound of marguerites. The interior of the church being of dark wood and the floral decorations confined almost entirely to white, every flower showed for its full value and the effect was very striking.

The decorations at the house were marked by an entire absence of lilies or hydrangeas. One of the prettiest combinations was seen in a recess in the main hall where the frame of a large picture was covered with daffodils and the foreground and corners were massed with genista plants which arched over with beautiful effect. The staircases were richly trimmed for three stories up, each newel supporting a large cluster of long-stemmed American Beauties and the carved balustrades heavily decorated with masses of these and other large red roses.

The sides and top of the entrance to the reception room were thickly covered with Baroness Rothschild roses. At the end of this room, where the bridal party received, a curtain of asparagus, Mabel Morrison and Bride roses and white lilacs, caught up at one side with white ribbon, was the main feature, while the bay window in the center across from the entrance was arranged similarly excepting that Jacqs and crimson ribbon were used instead of white. The fireplace and mantel at the other end were filled with white rhododendron and azalea plants. Wherever available, festoonings of smilax and asparagus were freely used.

The bride's bouquet was made of white sweet peas and Phalænopsis amabile, small clusters of these same flowers being also fastened on the bows of broad white ribbon with which it was tied. The bouquets for the six bridesmaids were of lilacs, three purple and three white.

There is no scarcity of weddings this season and all the florists are having their share of the decorating work. There is nothing specially new or novel that can be said to be characteristic of these occasions this season, the only generally prevailing feature being a disposition to economize. Customers have got into a bad habit of going from one florist to another canvassing for low figures and many complaints of rate cutting are heard.

Bouquets for weddings are made rather large but there is no limitation as to the material that may be used in them, the flowers of which they are composed varying with the tastes or whims of the parties interested. In one case Mabel Morrison for the bride and Baroness Rothschild with mignonette for the bridesmaids were used; in another lily of the valley for the bride, while the bridesmaids carried tall clusters of longiflorum lilies laid up against the arm, in so called Grecian style; on another occasion the bride's bouquet was of Bride roses and the bridesmaids' of Bridesmaid roses. Occasionally a very eccentric fancy is displayed, as where a gentleman recently ordered a bridal bouquet of white camellias made in the old fashioned style and would take nothing else. In such instances the florists have learned not to question or to offer advice but to go ahead and do the work as directed, no matter how absurd.

Southern palm leaves are pretty extensively used as back grounds, and festooning of laurel is occasionally used where much is wanted for little money. Asparagus is the material most in demand however for such work. Sea green ribbon is very generally used to fasten these festoons. Wreaths of Southern galax leaves, sometimes in combination with roses, etc., are used indiscriminately for both weddings and funerals. Where it is desired to shut off a part of the space in a church for special uses the reserved portion is designated by a festoon of roses or ribbon across the aisle, or a pair of tall palms are placed so that the leaves form an arch overhead.

The wholesale cut flower trade is in somewhat better shape than at time of last report, the long spell of dark and stormy weather having shortened up the crop so that it is scarcely equal to the demand. Prices continue low in spite of this; it is a hard job to restore prices after they have once gone down; the retailers resist anything of this sort with remarkable unanimity. Harrisii lilies are sold cheaper than ever before, $20 to $30 per thousand being the prevailing figure and they are not all sold, even at that. There are indications of an approaching scarcity of smilax. Wiegand Bros. are sending in La France roses now, the equal of which it would be difficult to find. Moss roses are coming in from Ernst Asmus and Julius Roehrs.

Mr. I. Forsterman was the recipient on April 8th of a handsome gold watch and chain which was presented to him by the Schwaebischer Saenger Bund of Brooklyn, an organization of which he is a member.

Thos. W. Weathered's Sons have secured a contract to erect a fine range of greenhouses for Mr. E. T. Bedford, Green's Farms, Conn.

Mr. Charlie Carlin, Thorley's indispensable buyer, is receiving congratulations on the birth of a daughter. On being asked how he felt about it his reply was "Oh, that's not bothering my head much; third wife, you know."

Captains of nursery or florist's nines and others interested in base ball can now arrange dates with a crack New York aggregation by addressing John Skelley, care of Thos. Young, Jr., 20 West 24th street.

Lorenzo R. Brower of the firm of W. H. Brower & Sons, Broadway, will be a married man by the time this gets into print; Wednesday April 18th, is the happy day.

Thorley is enlarging his facilities by moving his offices up one story above his store.

P. B. Meissner of Flatbush is sending fine plants of calceolaria to the New York market.

Washington.

The annual business meeting of the Washington Florist Club was held April 4 in their new and comfortable quarters, No. 716 6th street, N. W. The first business transacted was the election of officers resulting as follows: President, Wm. H. King; Vice-President, Robert Lacey, of the firm of Kramer & Lacey, of Anacostia, D. C.; Secretary, Geo. W. Oliver; Treasurer, Adolphus Gude; Corresponding Secretary, Wm. F. Gude. This meeting was well attended. The advisability of holding another chrysanthemum show this coming fall was brought up and thoroughly discussed by all present. Mr. W. A. Manda, of South Orange, N. J. being present, was requested to address the meeting on his experience in running a chrysanthemum show. He gave a very interesting talk on the subject, which was thoroughly appreciated by all present. Mr. Manda is a great believer in shows and said they were the life of all clubs; that that was the principal purpose of their organization. The majority of those present were in favor of holding a show, but a decision was ultimately postponed until a future meeting. Mr. Fred Atkins, representing Pitcher & Manda, looked in upon us. In the basement of this new hall is a fine bowling alley, which is a great attraction to many of our boys. After the meeting they invited Messrs. Manda and Atkins below to take a turn at the pins, where several hours were very pleasantly passed.

Mr. A. W. Bennett, Supt. Schenley Park, Pittsburg, spent Saturday and Sunday in Washington. He is on his way east in the interest of some special improvements in the park in the way of an electrical fountain.

The cut flower trade has hardly been up to the standard. Society people are keeping rather quiet since Lent. Roses are more plentiful and of better quality.

The boys are all very busy preparing for the spring trade in bedding stock. The market florists have been kept quite busy the past week. The demand for plants in bloom has been very good while the demand for decorative plants, palms, dracænas, rubbers, etc., has been fully up to the growers expectation. Should the weather moderate and get a little more spring like, the growers will be kept on the jump for the next few weeks.

Mr. Geo. H. Brown, Supt. Public Parks,

is a very busy man just now preparing plans for the planting of the beds in the various reservations. This season he proposes to use more tropical and subtropical plants than has been the custom heretofore. He is asking Congress for an appropriation for the purpose of erecting a house 20x120 feet in which to grow more tropical plants for bedding. This house will be erected during the summer and will be devoted exclusively to tropical plants for the parks. The new French cannas will be a feature in the parks this season. Flowering tobacco is also to take a conspicuous part. A few of those plants were used last season with good effect. The variegated bananas will form the centers of a number of beds. The newer and better varieties of sunflowers will be used extensively, also the best of the ricinus, and grasses, particularly the three varieties of eulalias will be used in quantity. In the shady parts of some of the parks new beds will be cut and planted with such plants as crotons, pineapples, dieffenbachias, caladiums, dracænas, begonias, etc. Every inch of space in the houses under Mr. Brown is being rapidly filled with small bedding plants from their propagating houses. It requires hundreds of thousands of these plants every spring for the parks. Mr. Brown proposes to make a number of beds in designs complimentary to the Knights of Pythias who are to visit Washington this summer. They will be emblematic, representing their badges and insignia, something after the same manner of those made two years ago in compliment to the Grand Army. They will not use as many echeverias this season as they have done the past few years. The fountains will be filled with nymphæas and other aquatics. REYNOLDS.

Buffalo.

Business could be called only very moderate if it were not for funeral work, of which there has been a good deal of late, and as that class of work is always well distributed it helps everybody in the trade. We cannot complain of that great surplus of flowers which the large eastern cities speak of, yet all flowers are getting plentiful. Violets are growing beautifully less every day in size if not in quantity. Roses are fine just now. There are a few dozen "Belles" sold in Buffalo every day. You don't hear as much of this rose as last summer. You hear occasionally that it is "disappointing," "no improvement over Beauty," etc. Although merely a sport, or, to speak correctly, a bud variation of Beauty, it is very different in many respects. The leaf is distinct from Am. Beauty. When at its best the flowers have almost as beautiful a color as La France. A heavy full flower, and my experience with 500 plants this last winter is that the Belle will give you more flowers under the same conditions than Am. Beauty, and a dozen perfect flowers of Belle will sell before the Beauties. To think it a less vigorous grower than Am. Beauty is a fallacy; it is just as strong a grower.

On Tuesday we were visited by 18 inches of snow. It was a great blizzard for this time of year, but did no harm, and the bluebird and daffodil are again twittering in the garden in their respective places.

Sebastian Pickleman, after a winter's hard work, is going to take a good holiday. Californin and old Mexico will be thoroughly explored.

Mr. Stewart is receiving some great roses from Harry Dale and they are now talked about on the street. His Mermets, Brides, Wootton and other varieties are certainly wonderful and it is a sad fact they are not equalled on this side of the Niagara wherever you go. What can it be? It can't be climate and it ought not to be brains (Mr. D. will excuse me I know); it must be soil. Whatever the means to success, the roses are phenomenal. W. S.

MEDIA, PA.—The real estate of La Roche & Stahl under the trust judgment will be sold by the sheriff, in this city, at 10 a. m., April 28.

MINNEAPOLIS, MINN.—F. C. Bartels, for six years foreman for J. M. Gasser, Cleveland, is now foreman of the Mendenhall Greenhouses, this city.

DENVER, COL.—Easter trade was about 25% larger than last year, with prices about 25% lower. Supply ample. Quality not quite so good. Increased call for red roses, valley and violets.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—In or around greenhouses, by young man, 26; 8 years' experience; references. THOS. RODHAM, Scranton, Pa.

SITUATION WANTED—Charge of greenhouses; first-class cut flower grower and propagater; state wages. C B. care American Florist.

SITUATION WANTED—By practical gardener and florist, age 35, single; good references; please state wages. Address Paul, 84 Sherman St., Chicago.

SITUATION WANTED—By a first-class rose grower; 13 years' experience in this country; German, married; best of references. Address L D. care American Florist.

SITUATION WANTED—By gardener and florist; cut flowers, graperies, vegetables and mushrooms; commercial or private; age 32, married. E, care American Florist, Chicago.

SITUATION WANTED—Commercial or private, by first-class German gardener and florist; age 30; Pacific coast preferred; state wages. Address CHAS. VORBECK, St. Helena, Cal., box 3.

SITUATION WANTED—By good rose and cut flower grower, as working foreman; 15 years' experience in U. S. and Europe; first class references; age 30, single. Address GROWER, care American Florist.

SITUATION WANTED—By an energetic, first-class man, single, German, age 30; thorough experience in rose and cut flower growing; references A1; open May 1. Please address H. E., box 483, Westerley, R. I.

SITUATION WANTED—In store or commercial place, having experience in growing roses, carnations and general florist stock; also a good cut flower worker; good reference. FRANK ZECH, Pequot Greenhouses, New London, Conn.

SITUATION WANTED—By first-class designer, also willing to make himself useful in greenhouse if necessary; single man of 30; first-class references. Will work for moderate salary if steady place. Address C W, care American Florist.

SITUATION WANTED—By a first-class florist and landscape gardener as foreman or head gardener; commercial place preferred; over 30 years' experience in all branches; German, married, no family. J. A. KASCHKA, 315 8th St., N. W., Washington, D. C.

SITUATION WANTED—As foreman by a first class florist; German, age 24, sober and energetic; good rose and general cut flower grower; also good ornamental and bedding plant grower and designer; can furnish good references and refer you to reliable parties; please state wages; steady place only wanted. Address E. G., 512 Hall St., Grand Rapids, Mich.

WANTED—An experience florist, one familiar with propagating and growing roses and carnations; steady work for the right man. E. NAGEL & CO., Minneapolis, Minn.

WANTED—To purchase florist establishment adapted to cut flower growing for the market; a location in eastern New England preferred. Address A, care Eastern Office American Florist, 67 Bromfield St., Boston.

WANTED—A good man with experience in rose propagation as an assistant in commercial place; steady employment and good wages; must be well recommended. Apply Room 15, 225 Dearborn St., Chicago.

WANTED—Florist, experienced in growing cut flowers (roses in particular) and forcing of bulbous stock; state wages expected, with references, whether married or single. Address WM. HALLBROOKS, 921 E. Oregon St., Evansville, Ind.

WANTED—A partner to join me in growing cut flowers for retail trade; must have some experience and a little capital; plenty of room for a big business. For particulars address A E, care F. C. Young, 29 Maplewood Ave., Portsmouth, N. H.

WANTED—In a well established florists' business an active partner with capital of $3,000-$5,000. An immense extent of country with rapidly increasing population and very little competition. No such chance on the continent. Address A. BOWERMAN, box 956, Winnipeg, Manitoba.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man. WILFRED A. BROTHERTON, Rochester, Mich.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about $75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—Cheap, one Furman boiler No. 4; 3 years in use. A. GROHMANN & SONS, Saginaw, East Side, Mich.

FOR SALE OR TO LET—A valuable florist business. For particulars address JACOB MENDEL, Lock Box 59, Nyack, N. Y.

FOR SALE—Established and paying florist business; only one in one of the best counties in Indiana. Address CENTRAL, care American Florist.

FOR SALE—One Kroeschell hot water boiler 4x12; 4 years in use. Also about 4000 feet 4-inch pipe. ART FLORAL CO., 3911 Cottage Grove Ave., Chicago.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE—At a sacrifice, on account of poor health, three large greenhouses, well stocked, in a live town of 10,000 in central Pennsylvania; good trade in all surrounding towns; no other greenhouse within 80 miles. Correspondence solicited. PENNSYLVANIA, care American Florist.

FOR SALE—Store well stocked, together with 4,000 feet glass, heated by steam, well stocked two spring wagons, two horses and all modern conveniences; price $4,000, three-fourths cash. Apply JOHN SCHNEIDER, 921½ Walnut St., Kansas City, Mo.

FOR SALE—From one to fifteen acres of land with southern slope, one block from depot at Valley Park, a suburb of St. Louis. A very suitable location for a florist growing cut flowers for St. Louis market. Twelve trains each way daily. Two express companies. Plenty of water. Price low. Terms easy. For further information address E. H. MICHEL, St. Louis, Mo.

FOR SALE—A thriving florist's business in a growing town of 6,000 inhabitants in central Missouri. The only florist's establishment there. Two greenhouses, 3 acres of land and a handsome residence. Annual net profits $2,000, and can be greatly increased. Price $8,000. Owner's health is bad and he must leave before another winter. For further particulars address E. H. MICHEL, St. Louis, Mo.

FOR SALE OR TO LET—A suitable place for a florist or market gardener, consisting of 5¼ acres good land, cottage of eight rooms with dry cellar, also barn. Greenhouse 80x14, heated by Weathered hot water apparatus all in good order. Finest market in the world for disposing of all produce, both in summer and winter. The property is situated quite close to the city of Newport, R. I. For terms, prices, etc., address A. PRESCOTT BAKER, Bellevue Ave., Newport, R. I.

FOR SALE.

Seven greenhouses, Queen Anne cottage, all in good condition; near depot, fifteen minutes from New York City. Terms reasonable. Address **B**, care American Florist.

FOR SALE.

Five thousand HOLLYHOCKS, in colors, Chandler's strain, per 100, $8.00; per 1000, $60.00. Also 1000 SWEET WILLIAMS, per 100, $8.00. Strong plants.

ART FLORAL CO.,
3911 Cottage Grove Ave., CHICAGO.

A RARE CHANCE FOR INVESTMENT

FOR SALE.

Columbia Farm, containing over 20 acres arable and grazing land, climate one of the finest in the world. Frost and malaria unknown. Lilies, narcissus and amaryllis grown in open ground throughout the winter. Enough Harrisii and other Bulbs will be furnished to stock the farm, so that new proprietor can enter at once into business, which should be started not later than August next. Our Harrisii Bulbs have a world wide reputation, and a good practical manager can secure handsome profits. Sold because other business claims my attention. Communicate with

R. H. JAMES, Preprietor, St. Georges, Bermuda.

REMOVAL NOTICE.

T. J. CORBREY. CHAS. W. McKELLAR.

CORBREY & McKELLAR,

Wholesale Commission Florists,

Telephone Main 4508. **64 & 66 Wabash Ave., CHICAGO.**

We beg to inform our customers that we have removed from the Chicago Cut Flower Exchange to Nos. 64 and 66 Wabash Ave., where we have secured quarters suitable to carry on a much more extensive commission business than heretofore, having the facilities to handle much more stock, and in a much more satisfactory manner, both to our growers and buyers. Our quarters being much enlarged, will enable us to add more consignors to our list. Growers of good stock wishing to place their goods in hands where it will be carefully dealt with, will make no mistake by giving us a trial. All stock received will have best of care and be disposed of to the best possible advantage. We settle all grower's account sales weekly, thus it necessitates our buyers to settle all accounts promptly. We issue statements semi-monthly, yet while we know parties to be punctual in making payments, should they prefer settling monthly, it is perfectly satisfactory to us that they should do so, but under no circumstances can we carry accounts over thirty days. Our aim is to do business on a cash basis, much as possible, thereby affording us the opportunity of giving our customers benefit of lowest possible prices, and enabling us in making prompt settlements with our growers. Parties unknown to us, when ordering flowers, will please send references or cash with order, otherwise goods will be shipped C. O. D. Buyers will make a saving by using our telegraph code whenever possible.

We make a specialty of regular orders, parties using certain quantities will find an advantage in placing regular orders daily, or as desired, as it will insure first-class stock at all times

All telegraph, mail and telephone orders given prompt attention. Should we be out of what you want, we will secure it if to be had in the vicinity of Chicago.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.

Monon Building, CHICAGO.

CLEMATIS.

12 Choice leading kinds. Large flowering.
Two years $3 per doz.; $22.50 per 100
Three years $4 " $30.00 "

DAISIES. — Snowflake and Snowcrest, distinct kinds, indispensable for spring sales, $2 per 100.

SMILAX SEEDLINGS,

from fall, 75 cents per 100; $6.00 per 1000.

F. A. BALLER, Bloomington, Ill.

Mention American Florist.

Farfugium Grande.

Fine plants, $7.00 per hundred; by mail, postpaid, $1.00 per dozen. You will make a mistake if you fail to secure a stock of this, always scarce plant, at the above low price.

TILTON BROS.,

No. 222 Grove Street, AURORA, ILL.

The Directory

For 1894

IS NOW READY.

Price $2.00.

AMERICAN FLORIST CO.,

CHICAGO.

Verbenas

SPECIAL OFFER. Per 100 Per 1000

Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" rooted cuttings,	1.25	10.00
General collection, named, " "	1.00	8.00
" " 2¼-inch pots	2.50	20.00

Send for price list of Carnations, Chrysanthemums and other florist stock.

WOOD BROTHERS,

Fishkill, N. Y.



Tuberous Begonias.

GRIFFIN'S STRAIN.

Medal awarded World's Fair.

We are headquarters for the above, the finest strain in the world. Send for illustrated descriptive catalogue with copyright engravings. It tells you all about them.

OASIS NURSERY CO.,

Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.

HERE'S A POINTER FOR YOU.

At the **West End Greenhouses, Mt. Pleasant, Iowa,** you can get strong, healthy Verbenas, from 2 and 2½-inch pots, at $1.85 per 100. Rooted cuttings 75c. per 100. Alternanthera—A. nana, P. major and versicolor, 2½ and 3-inch pots, $2 25 per 100. Coleus in variety, 2½ and 3-inch pots, at $2.00; Rooted cuttings, 50c. per 100. Cash with order.

MRS. J. P. BEAN & CO., Mt. Pleasant, Iowa

THE BEST

CHRYSANTHEMUMS

UP TO DATE,

At way down prices. Send for circular.

H. W. TURNER, Chrysanthemum Specialist,

SHARON, PENNA.

CHAS. DAVIS.

The magnificent golden sport from **VIVIAND-MOREL,** identical except in color, 35c each; 5 for $1.

ENFANT DES DEUX MONDES.

Grand snow white sport from **LOUIS BOEHMER** perfect in habit, flower superior to Mrs. Hardy, 25c each; 5 for 75c. or 5 of each $1 50. All post free. Low quotations on large quantities.

T. H. SPAULDING, Orange, N. J.

NEW CHRYSANTHEMUMS.

SPECIALTIES: Including The Queen, Niveus, Mrs. F. L. Ames, Golden Wedding, Judge Holtt, and Good Gracinus. Twelve plants for $1.00.

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GENERAL LIST: Including many new varieties. Sixteen plants for $1.00.

Now ready for delivery. Send for catalogue.

M. B. LITTLE, GLENS FALLS, N. Y.

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SPECIAL OFFER to the TRADE

50,000 New Yellow Coleus

GOLDEN CROWN, the most hardy, strongest growing, highest colored yellow to date, 2-inch, well grown, $4 per 100; $35 per 1000; 250 at 1000 rates throughout.

10,000 in 12 other standard leading sorts, plants $1.50; rooted 70 cts. per 100.

10,000 Snow Crest Daisies, $3 per 100; $25 per 1000.

30,000 Mam. Verbenas, progressive type, none better.

5,000 of them Climaxers the Peerless crimson bedder.

10,000 seedlings from our XX and XXX progressive seed will give the most splendid new kinds, all perfectly clean and healthy, 3-inch, strong, fine, in bud, $2.50; flats $1.50 per 100, seedlings same rate; special rates per 1000.

5,000 Vgt. Vincas, extra fine, 3-inch $3; flats $1.50; rooted $1 per 100.

5,000 Giant Scabiosa Snowball, per 100 $1.50; seed, 25c. for large trade packet.

10,000 Gibson's sweet scented hybrid pansies, flats $1; frame $2 per 100; seed ⅛ oz. 50c., ¼ oz. $1. ½ oz. $1.60.

5,000 Gem Feverfew, 5,000 Golden Marguerites, 5,000 Dwf. Lobelias, 5,000 Golden Feather and C. Gymnocarpa, the last two seedlings small pkts. $1 50, rooted cuttings 75c. per 100.

Double Petunias, Dreer's new '93 set and the Queen the best all round double white, rooted, named, labeled, $2 per 100.

Mexican Primrose, three novelties, named, rooted $1 per 100.

30,000 Eulalia Zebrina and Japonica, potting size $2.50 per 100.

5,000 Torenia Fournieri, seed pan 50 cts., from flats $1 per 100.

Lots of other good things. Write for what you want. Premium offer for every $5 order: We will put in free 6 Giant Nerina Verbena and 1 Golden Strand Coleus; doubled on every $10 order, and 1 Dak. Primrose, 1 pkt. Double Petunia and 1 pkt. Scabiosa snowball when desired. Price list free. Address, cash with order please.

J. C. GIBSON, Woodbury, N. J.

Mention American Florist.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

The Boskoop, Holland, Nursery Association

OFFERS AT SPECIAL PRICES

Roses, Azaleas, Rhododendrons, Clematis, Etc.

Address **C. H. JOOSTEN,** Agent,

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Crabb & Hunter,

Florists & Fuel Oil Plant Contractors,

Also Dealers in OIL BURNERS, and Agents for **Snell's Hydraulic System** of using Oil for fuel purposes. *No odor*, and ½ to ⅓ cheaper than coal.

509 Madison Ave., GRAND RAPIDS, MICH.

☞Send for Circular.

St. Louis.

The cut flower trade for the past week has been exceptionally good. The presentation of Grand Opera has had a marked effect on the market; prices have not advanced any but there has been a cleaning out every day that was gratifying to note. The stock most in demand was long Beauties with Meteors as second choice. The plant trade still continues slow despite favorable weather.

At the regular monthly club meeting which occurred on the 12th there was a very fair attendance. The exhibition committee having in charge the show, reported that it had decided to hold the coming exhibition in the art rooms of the Exposition Building in preference to the Grand Music Hall, which has been used heretofore. The difference in price between the cost of the hall last season, and the terms for which the art rooms have been secured for the coming show is $600, and it is expected that this will go a long way towards having a balance on the right side when affairs are wound up.

The responses secured from the various street car lines, regarding the placing of advertising on the cars, were very favorable and doubtless will be acted upon. The list of Shaw premiums as accepted by the board was read, it is about the same as far as plants are concerned, an important addition has been made however in the shape of four sets of premiums consisting of $20, $15 and $10 each, and offered for the best 25 blooms of white, yellow and pink chrysanthemums, one variety; also for best 25 flowers one variety, introduction of 1892, '3, '4. These being Shaw premiums are open to all competitors without the payment of any entrance fee or other charges. The prevailing opinion heretofore has been that our prizes have been too small to draw strong competition, but with the offering of the above and the decided increase that has been made in all the other classes, the competition should be as good as seen anywhere, and there should be displays from the best growers in the west.

The prize offered last year for a centerpiece, and which caused much discussion as to whether it should consist of one or more plants, bobbed up again, and it was finally decided not to limit it to one plant, but to confine to one variety.

A committee consisting of Mr. J. M. Jordan, John Young, and E. H. Michel was appointed to examine into and report upon the advisability of adopting some method of protecting those engaged in trade here from parties who systematically avoid paying debts. A short paper was read upon the use of manures and fertilizers in growing roses, which elicited quite a little discussion, after which the club adjourned.

The fourth series of games rolled by the Bowling Club closed last week, team No. 2 coming out first with 12,289 pins, No. 1 second with 12,231, and No. 3 third with 11,009. Mr. C. A. Kuehn wins the medal for high average, with a record of 201¾ for 12 games. This being the third time he has won the medal it becomes his personal property. Emil Schray takes the individual medal with a score of 266, and last but not least John Kunz retains a firm grip on the medal made from "hide" with a record of 120 5-12.

The coming series will not be as well attended as those during the winter owing to the rush of spring work, several notices having been received from members who will not enter. The same number of teams will be formed, but in all probability will consist of but five members each. R. F. T.

ROSES. **ROSES.**

Per 100.		Per 100.	
Am. Beauties,	$6 00	Brides, - -	$3 50
Testout, -	6 00	La France, -	3 50
Meteors, - -	3 50	Mermets, -	3 50

Special discount on our Beauties on orders of 500 or over.

CARNATIONS—Rooted Cuttings transplanted in soil. DAYBREAK, $25.00 per 1000. SILVER SPRAY, $20.00 per 1000. TIDAL WAVE, $20.00 per 1000.

REINBERG BROS., 51 Wabash Ave., **Chicago.**

ROSES, all the very best both new and old.

CHRYSANTHEMUMS, the cream of all the long list now offered, in extra fine plants now ready for immediate delivery. JOHN N. MAY, Summit, New Jersey.

Brides, Bridesmaids, Perles, Meteors, Hostes, From 2, 3 and 4-in. pots. **ROSES** Cusins, Beauties, Niphetos, Testouts, La France, Mermets,

Address for quotations T. W. STEMMLER, VILLA LORRAINE ROSERIES, Madison, N. J.

Sole Agents for U. S. for Chas. Macintosh & Co., England, Inventors of Vulcanized India Rubber. Extra strong greenhouse hose to withstand high pressure. ¾-in., 3-ply. 15c. per foot in 50 feet lengths.

2 1-2 Cent ROSES.

200,000 from 2½-inch pots, at $25 per 1000; $3 per 100.

STRICTLY OUR SELECTION. Cash with Order.

50,000 from 4-inch pots, at $60 per 1000; $7 per 100.

VARIETIES IN STOCK.

HYBRIDS—M. Baumann, Black Prince, Alfred Colomb, F. De Lesseps, De Graw, Dufferin, Edinburgh, Holmes, Giant of Battles, Lefebvre, Lyonnaise, Prince Arthur, E. Verdier, E. Fuerst.

HYBRID TEAS—Weilshott, Meteor, Pink Rover, La France, White La France, Albany, Wootton

TEAS—Bravy, Gontier, Golden Gate, Mermet, Brides, Passot, President, Rubens, Anna Ollivier, Perle, Sunset, Schwarz, Watteville, Hoste, Salviati, Safrano, Waban.

CLIMBERS—Baltimore Belle, Seven Sisters, Tennessee Belle, Gustave Gossard, Marechal Niel, Solfaterre, Devoniensis, Lamarque, Perle, Richardson.

Also Queen's Scarlet, Hermosa, Soupert, Chatelard, Pernet, Kuster, Mignonette and other varieties.

Quality of stock guaranteed. Personal inspection invited. Send for quotation on your own selection.

THE NATIONAL PLANT CO., Dayton, Ohio.

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IN EXCHANGE FOR LABELS.

Roses—Am. Beauty, Meteor, Bridesmaid, Gen. Jacqueminot, Ulrich Brunner, Hermosa and other H. P. Roses.

Write us, stating price and quantity.

WILLIAMS & SONS CO., BATAVIA, ILL.

FOR SALE.

Choice lot of young rose plants out of 2½ and 4-inch pots. Mermets, Brides, La France, Perles and **Bridesmaids.** Apply

GORDON PARK GREENHOUSES, Glenville, Cuyahoga Co., Ohio.

PRICE BY MAIL.

Rooted Cuttings of Carnations, transplanted. S. Spray, McGowan, Wilder, Portia, Lamborn, at $1.00 per 100. VIOLETS Marie Louise, rooted cuttings, at 70c. per 100, and $5.00 per 1000. Cash with order.

J. J. LAMPERT, Xenia, Ohio.

Roses Our Specialty.

200,000 READY NOW in best leading sorts from

	Per 100	Per 1000
2-inch pots	$ 3 00	$ 30.00
3 " "	5 00	45.00
4 " "	12.00	110.00
PANSIES, extra strain from boxes, once replanted		5.00
PANSIES, in bud and bloom, 2-in. pots		20.00
PETUNIAS, dbl. fringed, 2-in. pots	4.00	35.00
VERBENAS, the very best	2.00	18 00
CARNATIONS, leading sorts	4.00	35.00
FUCHSIAS, single and double	3.00	30.00
CHRYSANTHEMUMS, the very cream	3.00	25.00
" The Queen.	5.00	45.00
GERANIUMS, sgl. and dbl. extra sorts	3.00	30.00
COLEUS, named sorts	3.00	25.00
" Golden Bedder	4.00	35.00
" large lvd. seedlings from boxes	3.00	20.00

Hardy Perennials, Shrubs and Evergreens in quantity. Send your lists to be priced. Ask for catalogues, wholesale and retail.

We employ specialists in every department and can guarantee satisfaction. Four acres under glass.

ADDRESS NANZ & NEUNER, Louisville, Ky.

Mention American Florist.

H. P. ROSES

2 year old, budded, fine dormant stock, leading varieties; per doz. $1.50; per 100 $10.50; per 1000 $90.

CLEMATIS

Strong, 4 year old plants, splendid stock; per doz. $4.75; per 100 $37.50. Varieties: Jackmanni, Miss Bateman, Henryi, Lawsoniana, Standishi.

List of other hardy stock on application.

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Alternantheras, Versicolor, Rosea nana, Aurea nana and P. Major	$.50
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Alternantheras, P. major, Aurea nana, Tricolor (Rosea nana), Versicolor	2.50
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" " potted	10.00
Fancy Leaf Caladium, fine mixed	6.00
" " " named	8.00

Trade list on application.

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150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

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—— GROWERS OF ——

HYACINTHS, TULIPS, NARCISSUS, ETC.

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100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

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Price to suit the times.

SPHAGNUM MOSS in quantity, 50 cents per bbl.

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100,000 PANSIES, in the seed bed, at $2.00 per 1000, and about 50,000 transplanted in flats, at $4.00 per 1000.
ROOTED CUTTINGS of COLEUS, your selection. $6.00 per 1000. Our selection, $5.00 per 1000.
FUCHSIAS, leading sorts, rooted cuttings $1.00 per 100.
HELIOTROPE, 4 varieties, $1.00 per 100.
SALVIAS or SWEET SAGE, $1.00 per 100.
AGERATUM, blue and white, 75c. per 100; $6 per 1000.
Cash must in all cases accompany the order.

J. E. FELTHOUSEN,
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Pansies, 50,000.

The Jennings strain of large flowering and fancy pansies now ready. Fine large blooming plants, all colors, $2.00 per 100; $15.00 per 1000. Medium size plants, for May blooming, $5.00 per 1000 by Express; 60c. per 100 by mail.

Pansy Seed, pure white $1 per pkt. of 2500 seeds.
Large yellow, dark eye, $1 " " "
Snowflake Daisies, fine plants, $2 per 100.

Extra fine strain of German Daisies, large and double, white, pink and red, mixed or separate, $2.00 per 100. Cash with order.

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Subscription $1.00 a Year. To Europe, $2.00.

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No Special Position Guaranteed.

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THE Milwaukee Florist Club has issued a preliminary premium list for its fourth annual flower show to be held next November. Copies may be had on application to the secretary, Mr. A. Klokner, Milwaukee, Wis.

WE HAVE RECEIVED cut blooms of Mme. Caroline Testout from Reinberg Bros. of Chicago, which were certainly remarkably fine. The stems were strong enough to support a Beauty, entirely without the weak neck so often seen, and the color and size of flowers excellent. A fine rose without question and likely to be of more commercial value as we understand it better.

MESSRS. F. Calvert & Son, Lake Forest, Ill., send us a Papa Gontier rose bud that is full three inches long, and in an accompanying note ask: "How is this for a Papa Gontier?" It is decidedly the largest bloom of Gontier we have ever seen, but the great size has apparently been at least partially attained by the "swelling" process and the color and texture have suffered in consequence.

THE Rhode Island Horticultural Society has issued the premium list for the June exhibition. Prizes are offered for strawberries in 24 classes, for roses in 11 classes, for cut flowers in 7 classes, and for plants in pots in 9 classes. Gratuities will be given for displays of early vegetables. Announcement is also made of a September exhibition of fruits and flowers and of the annual chrysanthemum show. Copies of the list may be had on application to the secretary, Mr. C. W. Smith, 61 Westminster St., Providence, R. I.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
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WHOLESALE CUT FLOWERS,
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HEADQUARTERS FOR AMERICAN BEAUTIES
CHICAGO.

TWO HUNDRED THOUSAND
Sold past season.
KELSEY'S SOUTHERN GALAX LEAVES.
Every Florist should have stock. Will keep three months. Takes the place of Ivy leaves. PRICE $2.00 per Thousand.
WELCH BROTHERS, Sole Agents for New England States. 2 Beacon St., BOSTON, MASS.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
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GONTIERS,
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" Meteor, Mermet, Bride	3.00@ 5.00
" Bridesmaid	4.00@ 6.00
" La France, Testout	5.00@10.00
" Beauty	15.00@25.00
" Hybrids	10.00@35.00
" Jacqs	5.00@15.00
Carnations	1.00@ 4.00
Harrisii	2.00@ 4.00
Violets	.50@ 1.00
Valley	2.00@ 3.00
Daffodils, Tulips	2.00@ 3.00
Mignonette	2.00@ 4.00
Margerites	.50@ .75
Hyacinths	1.00@ 2.00
Smilax	10.00@15.00
Asparagus	50.00
Adiantum	1.00
Lilacs, per bunch	.50@1.50

BOSTON, April 14.

Roses, Niphetos, Gontier	2.00@ 4.00
" Perle, Sunset	3.00@ 4.00
" Bride, Mermet	4.00@ 6.00
" Jacqs	6.00@15.00
" Brunner	10.00@40.00
Carnations	1.00@ 2.50
Violets	.50@ .75
Harrisii	6.00@ 8.00
Lily of the valley, daffodils	3.00@ 4.00
Astilbe	1.00@ 2.00
Mignonette	2.00@ 4.00
Adiantum	1.00
Smilax	10.00@12.00
Asparagus	50.00
Primroses, per bunch	12c

PHILADELPHIA, April 14.

Roses, Perle, Gontier, Niphetos	3.00@ 4.00
" Cusin, Watteville, Hoste	3.00@ 4.00
" Bride, Mermet, La France	5.00@ 6.00
" Kaiserin, Bridesmaid, Testout	6.00@ 8.00
" Belle, Beauty	10.00@25.00
" Lalugs	12.50@25.00
" Brunner	25.00@40.00
" Jacqs	10.00@15.00
Carnations, H. Keller	6.00
" Ophelia, Sweetbrier	3.00
" Edna Craig	3.00
" good ordinary	1.25@ 1.50
Violets	.75@ 1.00
Mignonette	1.00@ 1.50
Asparagus	50.00@75.00
Harrisii lilies	4.00@ 6.00
Sweet peas	1.50@ 2.50
Cattleyas	40.00
Orchids	15.00@40.00
Smilax	15.00@20.00

CHICAGO, April 17.

Roses, Beauty	18.00@25.00
" Hybrids	12.00@18.00
" Jacqs	5.00@ 8.00
" Meteor	2.50@ 3.00
" Mermet Bride, La France per 100	15.00@20.00
Carnations	1.00@ 1.25
" fancy	2.00@ 3.00
Harrisii	4.00@ 6.00
Romans	1.00@ 1.50
Valley	2.00@ 3.00
Violets	.75@ 1.00
Mignonette	1.50@ 2.00
Sweet peas	1.25@ 1.50

ST. LOUIS, April 14.

Roses, Perles, Niphetos, Wootton	2.00@ 4.00
" Bride, Mermet, Meteors	4.00@ 6.00
" Watteville, Hoste, Cusin	3.00@ 5.00
" Bridesmaid	4.00@ 6.00
" La France, Albany	3.00@ 4.00
" Beauty	5.00@35.00
Carnations, long	1.00@ 1.75
" fancy	1.25@ 2.00
" short	.75@ 1.00
Valley	2.00@ 4.00
Harrisii	6.00@10.00
Callas	4.00@ 6.00
Smilax	15.00
Adiantum	1.25

CINCINNATI, April 14.

Roses, Beauty	10.00@25.00
" Mermet, Bride	4.00@ 5.00
" Testout	8.00
" Perle	3.00
Carnations	1.00@ 3.00
Tulips	3.00
Narcissus	3.00
Daffodils	2.00@ 3.00
Valley	3.00
Romans	2.00
Violets	.75@ 1.00
Callas, Harrisii	6.00@ 8.00
Pansies	.50
Smilax	12.50
Adiantum	1.00
Asparagus	50.00

BUFFALO, April 16.

Roses, Beauties	10.00@20.00
" Jacqs, Brunners	8.00@12.50
" Mermet, Bride,	5.00@ 7.00
" Meteor	6.00@10.00
" Goutier, Perle Hoste	4.00@ 5.00
" Cusin, Watteville	4.00@ 5.00
Callas, Harrisii	8.00@10.00
Carnations, long	1.50
" Daybreak and Wm. Scott	1.50@ 2.00
Valley	3.00
Violets	.60@ .75
Tulips, Daffodils	3.00@ 4.00
Romans	2.00@ 3.00
Pansies, Forget-me-not	1.00
Mignonette,	1.00@ 2.00
Smilax	20.00
Adiantum	1.50
Asparagus	50.00

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American Beauty,
Bride,
Bridesmaid,
Meteor,

And other choice Roses in best quality.

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PURE WHITE LILAC

Seasonable, Choice, Appropriate.

ALSO ALL OTHER DESIRABLE STOCK.

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Roses Shipped to all points. Price list on application.

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Established 1879.

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BRANCH: Cut Flower Exchange, 408 E. 34th Street.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, at Toronto, Ont.

DRY WEATHER is reported from the California seed growing districts, which, if not soon broken, may affect the coming harvest.

RAIN is also reported to be badly needed in the seed growing districts in France, no radish seed having been sown up to April 1.

J. A. SEVERNS, superintendent for D. M. Ferry & Co., with his family, has just returned from a three months' rest on the Pacific coast.

VISITING New York last week: Mr. Frank Emerson of Omaha, Neb., and Mr. W. Langbridge, Cambridge, N. Y.

THE SENATE has amended the paragraph of the Wilson bill referring to seeds so that Paragraph 611 of the free list now reads as follows: "Seeds of all kinds, bulbs and bulbous roots, not edible; all the foregoing not specially provided for in this act."

BALTIMORE, MD.—The Cleveland Seed Co., of New Jersey, has filed petition in Court of Common Pleas, praying that William B. Clark and Edward S. Frey, co-partners, trading as Clark, Frey & Co., No. 109 South Charles St., may be adjudicated insolvent debtors. The proceedings are based upon an alleged unpaid accepted draft for $365.77.

Slugs and Snails.

Mr. H. Grout, Springfield, Mass., writes that fostite is death to slugs and snails, and where this insecticide is freely used in the greenhouses snails are rarely found. His houses were full of them until he began to use fostite and this winter he has not seen one.

Charge for Storing Plants.

Will some reader of the FLORIST tell me what is the proper charge to make for keeping palms and other plants through the winter season. Also the same for summer season. A. B. C.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.

. . . HARRISBURG, PA.

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413 East 34th Street,

Near Long Island Ferry. NEW YORK.

Complete Stock of

ASTER SEEDS

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PRICE LIST FREE ON APPLICATION.

Tuberoses. . .

DWARF PEARL and TALL DOUBLE.

FINE, SOUND BULBS.

1st Size.....$1.00 per 100; $8.00 per 1000

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PACIFIC COAST TREE SEEDS

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And other Oriental Specialties.

ONION SEED, PEAS, BEANS, ETC.

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Largest Growers of

HYACINTHS, TULIPS, NARCISSUS,

SPIRAEA, LILIES OF THE VALLEY, ETC.

HEADQUARTERS FOR HIGH GRADE FORCING BULBS.

Wholesale Importers should write us for Prices.

OUR NEW TRADE LIST NOW READY.

JOHN SPEELMAN OF

C. J. SPEELMAN & SONS,

WHOLESALE BULB GROWERS,

(45 ACRES IN CULTIVATION.) SASSENHEIM, HOLLAND,

Begs to advise his American customers that he will call upon them at an early date and asks that orders be reserved until he has called. I shall be in America till May 15, and up to that date correspondence addressed to **JOHN SPEELMAN,** care of KNAUTH, NACHOD & KUHNE, 5 South William Street, NEW YORK, will have prompt attention.

SUMMER DELIVERY.

FREESIAS, LIL. LONGIFLORUM, CALLAS, GEM CALLAS, AMARYLLIS, CALIFORNIA BULBS, Brodiaea, Calochortus, Fritillarias, TREE FERN STEMS, and Australian Palm Seeds. Send for our NEW PRICE LIST.

H. H. BERGER & CO.,

Established 1878. SAN FRANCISCO, CAL.

SEEDS! PLANTS! BULBS!

Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.

Catalogue on application.

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. . DUTCH BULBS . .

PETER VAN VELSEN & SONS,

Heutvaart-Overveen near Haarlem, Holland.

Growers of Hyacinths, Tulips, Crocus, Narcissus, etc. Catalogue free on application. Special prices given for large quantities.

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TRY **DREER'S GARDEN SEEDS,**

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia, Pa.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

When writing to any of the advertisers on this page please mention the American Florist.

50,000 Dwarf French CANNAS.

We offer the above quantity in strong, well established plants from 3 and 4 inch pots. This stock must not be confounded with dormant pieces or freshly divided plants out of benches.

We list here only the principal varieties of which we have a large supply. For a general list refer to our Spring Trade List which describes over seventy-five varieties, including all the desirable novelties of the season, including the grand New German variety, Kouigin Charlotte:

	Per 100
Madame Crozy	$10.00
Alphonse Bouvier	10.00
Paul Marquant	10.00
Capt. P. de Suzzoni	15 00
Florence Vaughan	25.00
Charles Henderson	25.00
Paul Bruant	20.00
Admiral Gervais	15.00
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Cronstadt	15 00
Denil de St. Grevy	15.00
Explorateur Crampbel	15.00
Gustav Senneholz (true) distinct	15.00
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Stadtgartner Senneholz	15 00
Antoine Crozy	8 00
Admiral Courbet	8.00
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Comte Horace de Choiseuil	10 00
Duchess de Montenard	12.00
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Miss Sarah Hill	15 00
Mr. Cleveland	15 00
Mlle. Liabaud	12.00
Nelly Bowden	8.00
Princess Lusignani	12.00
Perfection	15.00
Souvenir de Jeanne Charreton	8 00
Statuaire Fulconis	8.00
Trocadero	8.00
Ventura	8 00
Viticulteur Gaillard	8.00
Kaiser Wilhelm	8.00

We will furnish one each of the above varieties, 46 plants for $5.50.

Among Crozy's New Cannas of this season **Paul Sigrist** is undoubtedly the most distinct and striking novelty. We are the only American house offering this variety to the trade this season. In general habit similar to Mme. Crozy, but of a bright crimson color nearly as rich as Alphonse Bouvier with a very broad golden yellow border. Stock limited, **$2.50 each.**

HENRY A. DREER,
PHILADELPHIA, PA.

THE ASSOCIATION FLORA,

BOSKOOP, HOLLAND.

NOW ON HAND IN NEW YORK:

CLEMATIS in sorts, 3 years.....per 100 $25.00
SPIRÆA JAPONICA..... " 4.00
DIELYTRA SPECTABILIS..... " 4.00

Lilium speciosum, Pæonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9.00: Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

Caladium Esculentum Bulbs.

ELEPHANT'S EAR.

	Per Doz.	*Per 100*
BULBS, from 6 to 8 inches (cir.)	$1.00	$ 7.00
" " 9 to 10 inches (cir.)	2.00	12.00
" " 10 to 12 inches (cir.)	3 00	20.00

Double Pearl Tuberose Bulbs.

BULBS, from 3½ to 4½ inches (cir.)	Per 1000 $6.00
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Lilium Auratum, (Golden Japan Lily.)

(Cases containing 100 Bulbs each.)

SIZE 8 to 11 inches circumference	Per Case $8.00
or lots of 5 Cases at	" 7.00

ROBERT BUIST,

GROWER AND IMPORTER OF BULBS, Philadelphia, Pa.

HOLLAND FORCING BULBS

Our Specialties for this Season will be

HYACINTHS, All Leading Varieties.

Small, pure white Hyacinths, to succeed the Romans.
Scarlet van Thol Tulips, La Reine, Chrysolora and other market vars.
Double Van Sion Daffodils in any quantity.
Narcissus Bicolor Horsfieldii, Sir Watkin, Poeticus ornatus, Albus plenus odoratus.
Spiræa compacta multiflora and Spiræa astilboides, two new sorts now much in demand in Europe.
Lilies and other bulbs and bulbous roots for forcing, etc.

Send list of what you need to

SEGERS & CO.

BULB GROWERS,
LISSE, near Haarlem, Holland, Europe.

Registered cable address SEGERSCO, Lisse, Holland.

ESTABLISHED 1874.

One customer writes: "The bulbs received of you last fall were very satisfactory." And another wrote last October: "The bulbs you forwarded us have opened up very satisfactory indeed, being fine, large bulbs, and in good condition."

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CYCLAMEN SEEDS,

European strain, the best in the world.

LILIES OF THE VALLEY,

Berlin and Hamburg Pips.

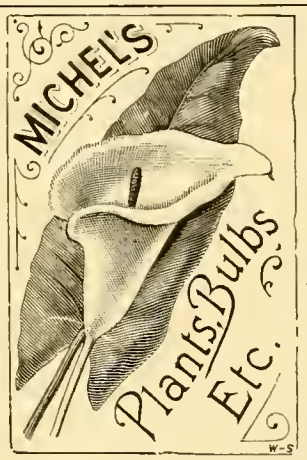
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Commission Seed Merchants,

122 E. 23rd Street, NEW YORK.

Please make us offer of all kinds of Seeds and Bulbs, we will sell it for you.



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MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Hulsebosch Brothers,

OVERVEEN, near Haarlem, HOLLAND.

Bulbs AND Plants

We are now prepared to quote lowest possible prices for next July, August and September delivery.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.
After May 1, '94, address will be ENGLEWOOD, N J.

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GROWER AND EXPORTER OF

BERMUDA BULBS,

Lilium Harrisii,	Lilium Longiflorum,
Freesia Refr. Alba,	Calla Lily,
Amaryllis Johnsonii,	French Cannas, best vars.
Amaryllis Regina,	White Rom. Hyacinths

CYCAS PALM LEAVES
A Specialty.

SHELLY BAY, - - BERMUDA.

FOR SALE.

Fine Blooming **CACTI,** 14 for $1.00, or $5.00 per barrel, my selection.
MRS. MAUD M. BRIGGS. El Paso Greenhouses, EL PASO, TEXAS.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Indianapolis.

Easter trade here appeared to be about one-third less than last year. The retail prices were somewhat lower, and the supply was plentiful, excepting fine roses. Owing to the warm weather preceding Easter flowers were soft. The reasonable prices had a good effect all round. The home supply was larger than last year, but shipped stock was all sold at a profit. The favorite flowers were Beauties, red roses and carnations, and violets. There was no demand for bulbous stock. The demand for lilies was not as great as usual, but Beauties and violets were in great request, and good prices could have been obtained for them. Pot plants sold well as long as the weather kept warm. Decorations seem to be growing cheaper. If the weather had been pleasant the trade would have eclipsed that of last year. Cold blustery weather commenced Saturday morning, and by Sunday noon it was worse weather than we had at any time last winter. If the weather had kept up pleasant no doubt every flower would have been sold; as it was several of the florists had a big stock left, besides losing part of their reputation by frozen lily plants and other unpleasant things. Out door shrubs and roses have suffered greatly by the recent cold snap, which was very harmful on account of the warm weather we had before. We will all remember the Easter cold snap of 1894.

The monthly meeting of the Indianapolis Florists' Club was held Wednesday evening, April 4, while the attendance was somewhat slim a good deal of business was transacted. The usual annual state fair matter came up; this time solicitations are made on the part of the state fair officers; they agree to do all in their power to please the florists. A committee consisting of W. G. Bertermann, Anthony Wiegand, John Hartje and E. A. Parker was appointed to arrange all details with the proper superintendent of floriculture. A conference will be held probably next week.

A letter was presented from Mr. Chislett, Supt. Crown Hill Cemetery, stating that the rules had not been changed (it being reported that no plants would be allowed to be planted by lot owners), but some system would be adopted that would prevent promiscuous planting of shrubbery, etc., by lot owners. Probably a general supervision would be instituted, and very likely large bedding would be adopted by the cemetery company.

Mr. Langstaff wanted meetings discontinued for the summer, but the motion was not sustained. It was decided instead to make the May meeting one of social character.

Henry Rieman read a well prepared paper on the preservation of cut flowers and blooming plants for the holidays when the season is forward, of which we have had experience this year.

Albin Schreiber, foreman for Bertermann Bros., was thanked for a beautiful selection of carnation and calceolaria blooms.

The committee for the Carnation Society Convention reported all bills paid and a small balance left. All those who helped to make this meeting a success were heartily thanked.

Secretary Bertermann of the state society reported that advance premium lists for the eighth annual chrysanthemum show are printed, and can be had by addressing him at 37 Massachusetts Ave., Indianapolis. W. G. B.

CANNA Florence Vaughan, Per 100 $25.00.
ALLA True Little Gem, Per 100 $10.00.
LOTHILDE Soupert Rose, Per 100, 2½ inch, $4 00.

H. P. ROSES, ETC.

H. P. Roses, 2 year old (budded), at $10.50 per 100; $100.00 per 1000.
Madam G. Luizet, Mabel Morrison, Prince C. de Rohan, Ulrich Brunner, Mrs. John Laing, Magna Charta, Giant des Batailles, Duke of Edinburgh, Gen'l Jacq (on own roots), 12-18 inches, fine stock, at $8.00 per 100.
Prairie Queen and Baltimore Belle, at $8.00 per 100.
Tree Roses, fine tops, H. P. sorts, at $8.00 dozen.
Raspberries—Shaffers Colossal, at $1.25 per hundred.
" Gregg, at $1.00 per hundred.
Gooseberries—Industry, 2 year old, at $10.00 per hundred; 1 year old, at $5.50.
Clematis—Jackmanni and Type, 3 year old, $4 80 per dozen, $38.00 per hundred; Jackmanni, 2 year old, Dormant (pot grown), at $3.75 per dozen, $27.00 per hundred.
Hydrangeas Paniculata Grd., 24-30 inches, at $9.00 per hundred
Hydrangeas Paniculata Grd., 18-24 inches, at $6.00 per hundred.
Cycas Revoluta stems, from 3 to 100 pounds each, at 17½ per pound.

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To the Trade.
FOR $15.00
WE WILL SUPPLY
100 strong plants in 100 varieties, from 3-inch pots, comprising Crotons, Marantas, Schismatoglottis, Aglaonemas, Phrynium variegatum, Panax Victoriæ and plumosa, Begonia Rex and Flowering Begonias, Aralia filicifolia and Chabrieri, Peperomia argyrea, Cissus discolor, Dieffenbachias in variety, Eranthemum Eldorado, nerum rubrum and purpureum; Nephthytis triphylla, Philodendron Carderii, Alocasias in variety, Pleione pulchra and Devoneana, Fittonia argyroneura, Dichorizandra undata, Ruellia Devoniana, Ixora Westii, Pothos aurea and argyrea, Graptophyllum pictum, Ficus Parcelli, Anthurium Andreanum, Reynoldianum and grande.
PITCHER & MANDA,
United States Nurseries,
SHORT HILLS, N. J.

Rooted Cuttings.
COLEUS, 10 kinds by mail.....60c per 100
" 12 kinds by express..$4.00 per 1000
VERSCHAFFELTII and SHELLY YELLOW.....$5.00 per 1000
ALTERNANTHERA P. Major and Aurea Nana, by mail.....50c per 100
CUPHEA (cigar plant), by mail...50c per 100
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FUCHSIA, mixed.....$1.00 per 100
CASH WITH ORDER.
S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

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SEED, TUBERS AND ROOTS.
Now is the time to sow seed of Water Lilies and Nelumbiums, and plant Hardy varieties. Seed 50c. trade pkt. Dormant tubers and roots by mail.
WM. TRICKER, Clifton, N. J.

ROOTED CUTTINGS
GOOD ONES.
Verbenas, 23 varieties 60c. per 100; $5.00 per 1000
Heliotrope, 7 varieties.....per doz. 20 cts.
Fuchsias, 12 varieties " 20 cts.
Cigar Plant and Lopezia..... " 20 cts.
Giant Alyssum and Marguerite Daisy... " 20 cts.
Manettia Vine, Mex. Primrose & Sultana " 25 cts.
Red, White & Blue Plant (Cuphea Llavea) " 30 cts.
Chrysanthemums, 20c. Coleus, 12c. Postage 1c. a doz.
Send for catalogue. I. L. PILLSBURY, Macomb, Ill.

Siebrecht & Wadley,
ROSE HILL NURSERIES,
NEW ROCHELLE, N. Y.
Palms,
ORCHIDS,
Roses,
and New Plants.
FRESH DRACAENA CANES NOW READY.

ORCHIDS OUR SPECIALTY.
The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.
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Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich St., New York City.

WHY NOT TRY
A FEW ORCHIDS?
They are Very Cheap. They are Easily Grown. They Sell Well.
They always attract attention in store or greenhouse.
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We Pay the Express.
GERANIUMS.
We will offer for the next two weeks, strong, bushy plants in bud, ready for the spring trade
Double Geraniums, mixed varieties, consisting of scarlet, white, pink, crimson and salmon.
3-inch..$5.00 per 100; 4-inch.....$7.00 per 100
Feverfew Gem, 2½-inch $2 50; 4-inch..... 6.00 "
Golden Marguerite, 3-inch..... 4.00 "
Double Fringed Petunias, 10 vars., 3-inch.. 5.00 "
Fuchsias, 3-inch..... 5.00 "
Ageratums, 4-inch 5.00 "
Begonias, 4 varieties, 3-inch..... 4.00 "
New Golden Queen Lobelia, 3 to 3½-inch, $1.00 per doz.
All the above delivered free by Express on receipt of price.
S. WHITTON & SONS, Wholesale Florists,
9 & 11 Roberts Street. UTICA, N. Y.

VIOLET PLANTS.
10,000 Victoria Regina, large dark purple forcing violets, $1.00 per 100; $7.00 per 1000.
50,000 Schoenbrun, best single winter blooming violets, 50 cts. per 100; $1.00 per 1000.
10,000 Zouave, darkest purple single violet, very fine, 75 cts. per 100; $5.00 per 1000. All strong, healthy plants, no cuttings. Cash with order.
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CARNATIONS.

Portia, Darling, Dorner, at $1.25 per 100; $10.00 per 1000.
Daybreak and Edna Craig at $2.00 per 100.
Annie Pixley and Helen Keller at $10 per 100; 25 for $3.00.

COLEUS.

Fine assortment, clean cuttings, at 75c. per 100 or $6.00 per 1000.

PANSIES.

Seedling plants at $5.00 per 1000. Blooming plants at $12.00 and $15.00 per 1000. The same good strain I always have.
Verbena—seedling plants of mammoth strains, extra fine. Cuttings are not in it with these plants; at 90c. per 100; $7.50 per 1000.
Cash with the order or C. O. D.

ALBERT M. HERR, L. B. 496, **Lancaster, Pa.**

4 NEW CARNATIONS
FOR 1894.

UNCLE JOHN, white; **THE STUART,** scarlet;
E. A. WOOD, pink variegated;
GOLDFINCH, yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from **Headquarters.** We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Eliz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.
Send for price list.

F. DORNER & SON, La Fayette, Ind.

MONEY-GETTERS ALL!

THESE NINE **CARNATIONS** FROM SOIL.
Free from Disease and First-Class in every way.

- Uncle John
- The Stuart
- Wm. Scott
- Edna Craig
- Albertini
- Daybreak
- Cartledge
- McGowan
- Portia

Note, before you order elsewhere, that we offer the above and twenty other good varieties of Carnations, well established in soil, ready for planting out or potting up—delivery in April—at the price of cuttings from sand, and guarantee satisfaction. Send for list.

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THE DIRECTORY

. . FOR 1894 . .

Is Now Ready.

PRICE $2.00.

American Florist Co.

50,000 Carnations.

ROOTED CUTTINGS.
NO "RUST."

SEND FOR LIST. . . .

Wm. Swayne,
P. O. Box 226. KENNETT SQUARE, PA.

Pansies.

Fine plants of best strain, just coming into bloom, $15.00 per 1000.

J. T. ANTHONY,
2205 Michigan Ave., CHICAGO.
Mention American Florist.

ADDITIONAL EVIDENCE OF THE VALUE OF THE NEW CARNATION "HELEN KELLER"

May be gleaned from the following letter, dated March 26; received from that practical florist Mr. Wm. Scott, Buffalo, N. Y., who writes as follows:

"The box of flowers of **"HELEN KELLER"** arrived in most excellent order on Friday A. M. I assure you I am much obliged to you. They are **WONDERFUL** in size and stem, and in keeping qualities, also. They were a revelation to me. I want 250 of them."

PRICE FOR WELL ROOTED CUTTINGS:
$3.00 per dozen; $12.00 per 100; $25.00 per 250; $90.00 per 1000. 500 at 1000 rate.
ORDERS MAY BE SENT EITHER TO

EDWIN LONSDALE, *CHESTNUT HILL, PHILA.* or **JOHN N. MAY,** *SUMMIT, N. J.*

It will pay every Florist who is interested in the CARNATION

to send for our Illustrated Catalogue of new seedling carnations.

THE COTTAGE GARDENS, Queens, L. I.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE.

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000.
Send for price list.

EDW. SWAYNE,
KENNETT SQUARE, PA.

THE JACQUEMINOT . . CARNATION

Is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. **NO MORE SAMPLES**—we cannot spare the time. Send for circular. Per dozen, $2.00; per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.

PETER FISHER & CO.,
ELLIS, Norfolk Co., MASS.

WE are now filling promptly all orders FOR **Ada Byron and Nicholson . . . CARNATIONS.**

They are the cream of the year.
Send for circular to

JOSEPH BRECK & SONS,
(CORPORATION),
BOSTON, MASS.

Rooted CARNATION Cuttings.

	Per 100	Transplanted
Hinze's White	$.75	$1.00
Lamborn	.75	1.25
Lizzie McGowan	1.00	1.50
Grace Wilder	1.00	1.50
Portia	1.25	1.50
Aurora	1.50	2.00
Dreer's Double Petunia, 2-inch pots	2.00	

J. T. DeWITT, Bristol, Pa.

SEND FOR OUR PRICE LIST OF

CARNATION ROOTED CUTTINGS.

Prices Greatly Reduced.
Largest Stock in the United States.

ESSEX HEIGHTS FLORAL CO.,
BELLEVILLE, N. J.

CARNATIONS

Rooted Cuttings Ready Now.

Silver Spray	Wm. Scott	E. Pierson
Lizzie McGowan	Daybreak	Portia
Blanche	Edna Craig	Wabash
Golden Gate	Annie Pixley	F. Mangold
J. J. Harrison	M. Albertini	Tidal Wave
T. Cartledge	Nancy Hanks	Dr. Smart

These and other standard sorts at market prices.

Varieties of 1894 Ready April 1st.

The Stuart (scarlet) was awarded the gold medal at Indianapolis. Uncle John (white), Helen Keller (variegated) received certificate of merit at same place. Goldfinch (yellow) and E. A. Wood.

SEND FOR COMPLETE PRICE LIST.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

ROOTED CUTTINGS OF CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chester Co., PA.

CARNATIONS

ROOTED CUTTINGS NOW READY.

Wm. Scott, Edna Craig, Daybreak, Thos. Cartledge, Buttercup, McGowan, and many of the standard kinds. Orders filled for the New varieties,
Stuart, Uncle John, Helen Keller, Sweetbrier, Annie Pixley, Bouton d'Or.

C. J. PENNOCK,
The Pines. **KENNETT SQUARE, Chester Co., PA.**

ROOTED CUTTINGS.
Chrysanthemums AND Carnations.

Write for list and prices. Prices to suit the times.

PANSIES, from cold frame, first size, $25.00 per 1000; second size, $15.00 per 1000.

Address **J. G. BURROW, Fishkill, N. Y.**

BOUTON D'OR,

The best Yellow CARNATION. Ready May 1st. Price $2.00 per dozen; $10.00 per hundred.

DAILLEDOUZE BROS., Flatbush, L. I., N. Y.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

The Wilson Bill.

Paragraph 666 of the tariff bill of 1890 placed "Orchids, lily of the valley, azaleas, palms, and other plants used for forcing under glass for cut flowers or decorative purposes," on the free list. The Wilson bill as reported to the House recommended the retention of this paragraph (under number 572) in the new tariff, but the Senate has now amending by omitting this paragraph from the free list and substituting elsewhere paragraph 234½ as follows: "Orchids, lily of the valley, azaleas, palms, and other plants, used for forcing under glass for cut flowers or decorative purposes, ten per centum ad valorem."

Nursery stock, upon which there was a duty of 20% ad valorem in the tariff of 1890 is placed upon the free list by the Wilson bill in paragraph 587 which reads as follows: "Plants, trees, shrubs, and vines of all kinds commonly known as nursery stock, not specially provided for in this act," and this has been concurred in by the Senate.

Garden seeds, upon which there was a duty of 20% ad valorem under the old tariff are placed on the free list by the House bill. The Senate leaves them on the free list but makes the paragraph broader by omitting the list of varieties and inserting the words "of all kinds," so as amended paragraph 611 reads: "Seeds of all kinds, bulbs and bulbous roots, not edible; all the foregoing not specially provided for in this act."

As will be noted bulbs and bulbous roots are covered in the above paragraph and are therefore retained on the free list.

Capacity of Boiler.

What is the capacity in feet of 4-inch pipe of a horizontal tubular boiler 6½ feet long, 3 feet in diameter, and containing 24 3-inch tubes? G. F. M.

A horizontal tubular boiler 6½ feet long by 3 feet in diameter, containing twenty-four 3-inch tubes, has a heating surface of 165 ft. and is of eleven horse power. The grate surface should be 3 ft. by 3 ft. For steam heating this boiler should take care of 1100 ft. of heating surface, or if for hot water heating, without pressure, about 2200 ft. of heating surface; as one foot of 4-inch pipe is equivalent to a foot of heating surface, the boiler will take care of as many feet of pipe as feet of heating surface given above. LINCOLN PIERSON, Of Lord & Burnham Co.

COLEUS.

In Assorted lots only.

ROOTED CUTTINGS, in 30 to 40 varieties, (our selection), at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.

NEW KINDS, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.

We will include at least 50 cuttings of the new kinds in every 1000 purchase.

W. R. Shelmire,
CARNATION GROWER,
. . . AVONDALE, PA.

EXTRA STRONG, WELL ROOTED
MARIE LOUISE VIOLETS.
Now Ready $5.00 per 1000; 90c. per 100.
MISS P. A. BAKER, Media, Pa.

Always mention the American Florist when writing to advertisers.

Palms. Palms. Palms.

LATANIA BORBONICA, from 5-inch pots, well grown, 24 to 30 inches high, 5 good leaves as large as the 6-inch plants sent out by any other firm.....$6.50 per dozen; $50 per hundred

LATANIAS, from 6-inch pots, 6 good leaves, 30 to 36 inches high, very strong plants.....$9.50 per dozen; $75 per hundred

LATANIAS, from 7-inch pots, 7 good leaves, very strong, 36 inches high, all good specimens.....$12 per dozen; $90 per hundred

PHOENIX RECLINATA, 4-inch.....$3 per dozen; $20 per hundred
" " 5-inch..... 5 per dozen; 35 per hundred
" " 6-inch, very strong, with fine leaves, 30 inches high, fine for single specimens or center for vases, etc., $1 each; $10 per dozen.

All these palms are in fine condition, with good clean leaves.

CROTONS, fine 3-inch pots, 10 good sorts, $1.00 per dozen. $7.00 per hundred
" fine 4-inch pots, 10 good sorts, 1.50 " 10.00 "
" fine 5-inch pots, 10 good sorts, 3.00 " 20.00 "

These plants can not be surpassed for fine foliage bedding; they gain in beauty the warmer the weather gets.

B. P. CRITCHELL & CO.,
Cincinnati, Ohio.

Begonias.

	M.	De 100
Argentea Guttata, Vernon, Dewdrop, Lesseps, and other	Per	100
Flowering varieties	$3	00
Paul Bruant, 3 in. 8 cts. each; 2½ in	6	00
Rex, in variety	5	00
COLEUS, in variety, per 1000, $20.00	2	50
Moon Vine, (I. Noctiphyton)	3	50
COBÆA Scandens	3	00
Geraniums, none but the best varieties, per 1000, $25.00	3	00
Happy Thought, Mt. of Snow and Bronze	3	00
Mrs. Pollock	6	00
Ampelopsis Veitchii, 1½ to 3 feet	4	00
Tricolor, strong 2 in	3	50
Chrysanthemums, leading varieties, per 1000, $20.00	2	50
Lemon Verbena, strong	3	00
Alternanthera, 3 varieties, strong, 2-inch	2	50
Achillea The Pearl, strong, 2-inch	2	50

Roses.

Hardy Climbers, 1½ in.	3	00
H. P., 1½ in.	3	50

Carnations.

Rooted Cuttings, leading varieties, healthy, per 1000, $10.00	1	25
HELIOTROPE, 4 varieties	2	50

THOS. A. McBETH & CO., Springfield, Ohio.

GRAPE VINES.

(FOREIGN.)

All the leading varieties for cultivation under glass, in following sizes: 1 year, 2 years, and extra strong. Also Peaches and Nectarines specially prepared for forcing in pots and tubs. Orders booked for specially prepared fruiting plants of Vines, Nectarines, Peaches, Strawberries. Full of '94 delivery.

JOHN G. GARDNER,
Johnstown, N. J.

Latania Borbonica.

From 6-inch pots, 24 inches high, with 5 to 7 characteristic leaves.

$1.00 each; $9.00 per dozen; $75.00 per hundred. Price of smaller sizes on application.

NATHAN SMITH & SON,
157 W. Maumee St, ADRIAN, MICH.

Marie Louise
VIOLETS

Rooted Cuttings, $5.00 per 1000.

ANCHORAGE ROSE CO.,
ANCHORAGE KY.

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Prices Lower Than Ever.

Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment October from 1 to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Feras, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to $5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

For general Japanese stock apply to

F. Gonzalez & Co.,
303 to 312 Wayne St., SAN FRANCISCO, CAL.

10,000 GERANIUMS of the standard bedding sorts, from 3 and 4-inch pots.
10,000 CARNATIONS, from 2½-inch pots. Also 5,000 Rooted Cuttings ready now.
30,000 ALTERNANTHERA, ready April 1st, of all the standard sorts.
700 strings of SMILAX, of which the average length is 7 feet.

Write for prices, as I will sell at a sacrifice to make room for other stuff.

MRS. GEO. R. FRAVELL, Marion, Ind.
PROP MARION AND MAPLE HEIGHTS GREENHOUSES.

PANSIES.

Imperial German mixed, best strain in the market; large stock plants, most all in bloom.
2 inches in diameter.....$2.00 per 100; $15.00 per 1000
4 to 6 inches in diameter.. 4.00 "
VERBENAS. Hybrid mixed, very strong plants, in 3-inch pots..... $2.50 per 100; $20.00 per 1000
Rooted Cuttings..... .75 " 6.00 "
Sample on application. Cash with order.

PETER BROWN,
721 Marietta Ave., LANCASTER, PA.

Begonias and Palms

BEGONIA Metallica, fine plants, 4-inch, $10.00
" " " 3-inch, 6.00
" De Lesseps, " 4 inch, 10 00
PALMS, well-grown Kealia Fosterinea, 5-inch pots, 30 to 36 inches high, $15.00 per dozen.

BROWN & CANFIELD,
SPRINGFIELD, ILL.

THE DIRECTORY

For 1894

IS NOW READY.

Baskets and Fern Dishes for Dinners, Decorations, Receptions, School Commencements, Bon Voyage, etc. purposes, in many pleasing styles, plain and fancy, of Wicker, Willow, natural, gilt or bronzed, Raffia, Celluloid, Silver and Gold Metal, etc., at high and low prices, all cheap for their cost; compare our Fall trade list.

Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

Immortelles, White and all colors, $2 75 the dozen, natural yellow, $2.00; Cape flowers, best $1.00 the lb., second size, 60c. the lb.; Wheat Sheaves, Wire Designs, Wire, Foil, Picks, Wax Paper, and all other **Florists Supplies** quoted in our **Illustrated Trade List,** mailed free.

Metal Designs for Decoration Day in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.

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CANNA MME. CROZY, started plants, $1 per doz.
CHRYSANTHEMUMS, nice young plants, including some of the newer varieties, my selection, $2.50 per 100.
FUCHSIAS, healthy vigorous young plants, from 2-inch pots. Splendid list of varieties, my selection, $2.50 per 100.
GERANIUMS, large assortment, my selection, $3.00 per 100.
CARNATION, entirely free from disease. One hundred in assorted colors, my selection for $2.50.
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ENGLISH IVY, 2-inch, $3.00 per 100.
Any of the above plants 25 at the 100 rate.

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Independence is well located for shipping, being 8 miles East of Kansas City, Mo.
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NYMPHÆA Odorata, large rhizomes		$1.00
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Are ready with a full stock of seasonable goods for Spring Weddings, Commencements and all occasions where floral decorations are used.

Baskets in all approved forms, celluloid, gold and silver; Jardinieres and Ferneries, Doves, Dried and Artificial Flowers, Wheat Sheaves, Metal Wreaths and Memorial Designs, Letters, Ribbons and Tinfoil.

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MARSCHUETZ & CO.,

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Send for Catalogue.

MEDAL AWARDED, World's Fair.

ERNST KAUFMANN & CO.,
Wholesale **FLORISTS' SUPPLIES**
No. 113 North 4th Street,
Send for catalogue. PHILADELPHIA, PA.

THE DIRECTORY

For 1894
Is Now Ready.
PRICE $2.00.
American Florist Co.

Neponset Flower Pots

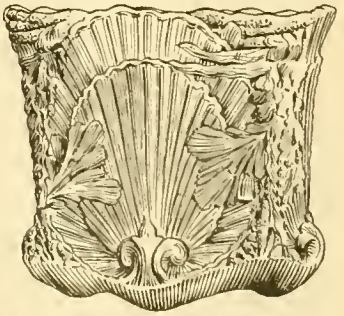
Are sold as follows: **Terms net cash with order.** If ordered shipped by freight add 50 cents cartage.

Size	Packed in Crates of	Gross weight per 1000 pots	Per 100	Per 1000
2½-inch	1,000	about 20 lbs.	$0.25	$2.00
2½ "	1,000	" 23 lbs.	.30	2.30
3 "	1,000	" 34 lbs.	.35	2.80
3½ "	1,000	" 45 lbs.	.50	4.00
4 "	500	" 76 lbs.	.60	5.00
5 "	500	" 100 lbs.	.90	8.30
6 "	500	" 150 lbs	1.50	13.35

Standard Pot Measure. Less quantities than full crates at 100 rates. For further detail see previous special advertisement.

August Rölker & Sons,
MF'RS AGENTS,
New York, 136 & 138 W. 24th St., P. O. Station E.

JARDINIERES. ALL SIZES.



J. M. YOUNG & CO., 37 & 39 Murray St., NEW YORK.

When writing to any of the advertisers on this page please mention the American Florist.

The St. Louis Florists' Bowling Club.

I'll sing a little song,
The singing won't take long:
To the east this summer we will go
And win that cup, we will by Joe.

We are led by Charlie Kuehn,
The captain of team one,
The banner bowler of the club,
He always takes the bun.

And then there's Dr. Helwig,
Who made 87 in one game,
And now for an excuse he says,
That he was very lame.

All hail to the kid of the club,
Capt. Ellison from the hub,
When uncle Harry starts to roll,
He'll try to show him how to bowl.

And then comes Johnnie Kunz,
He of leather medal fame,
We all know he's a dead game sport,
But he gets there just the same.

When Tom Peterson makes a poodle,
They all say he's off his noodle,
But after a strike he swims for his seat,
And says those ducks I have to beat.

You all know Rob and Charlie Beyer,
Whom all the boys admire,
No better bowlers are in the club,
They are always ready to give one a rub.

And Harry Young, our lucky man,
Who gets down to the h'alley;
He tries to do the best he can,
For Mary Ann and Sally.

Look out for Sandow Ostertag,
To much he don't amount,
But when he's got his Daisy there,
You bet he makes them count.

And there's our good friend Schray,
A bowler hard to beat;
His mustache is like the maiden hair,
But he'd sooner bowl than eat.

There's Charley Young and brother Bill,
Who come from yonder on the hill;
They are bowlers on the fly,
Why Bill made 277 and didn't half try.

You all know Bobby Tesson,
One of the dandies of our crew,
They all say he's so handsome,
With his two little girls in blue.

And then our old friend Waldbart,
Who has so long been sick;
We all hope to see him back again,
To make his usual kick.

Then there is handsome Sanders,
Whom every body likes,
For strikes and spares he always gets,
While his brother sells the bikes.

The Brothers Ostertag, Henry and Fred,
Always too busy to bowl,
But come down just once in a while,
To help their team out of a hole.

Our Treasurer, too, with cane in hand,
John Young of course is one of our band;
He handles all the cash we've got,
And he likes to bowl when cold or hot.

With Roper and Sexton from the nest,
They try to see who is the best;
One on team one, the other on three,
You'll always find them busy as can be.

Then Lawson and Frank Fillmore,
Two new members that is true,
They make some poodles and a few pins,
But strikes and spares are few.

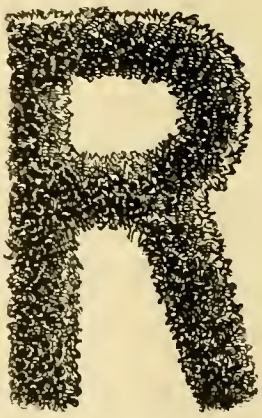
The man who wrote this little song,
Is a member of the club it's true,
He won just one medal,
Hard luck kept him from two. J. J. B.

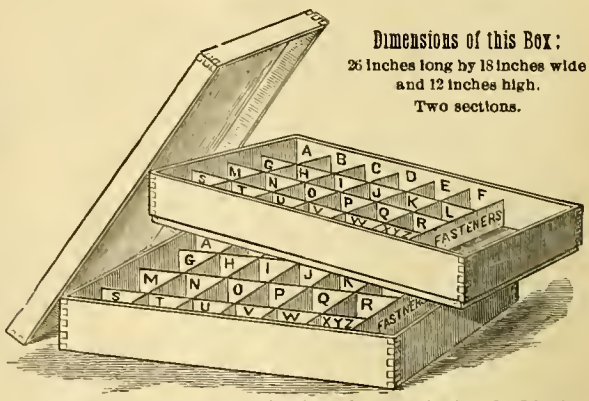


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Engraver for Florists,
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PRINTING DELIVERED FREE! 500 Cards, Envelopes, Bill or Note Heads, for $1.75, GEO. A. KARR, Printer and Paper Bag Manufacturer. Reference, Phil'a Seedsmen. PHILADELPHIA, PA.





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Two sections.

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Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

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We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

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A. Herrman, 415 E. 34th St., New York.
Ernst Kautmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont., Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
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Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.
Portland Seed Co., 171 2d St., Portland, Ore.
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HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00. M. A. HUNT, Terre Haute, Ind.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
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PRICE $2.
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CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
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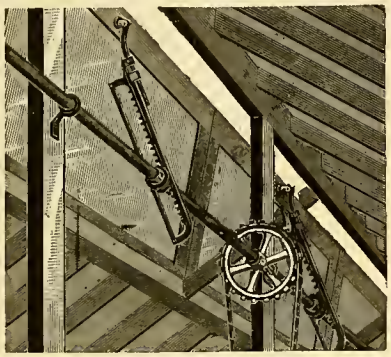
Kills Mildew and Fungus Growth. What does?
GRAPE DUST.
Sold by Seedsmen.

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FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

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TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

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Greenhouse Material,

LOUISVILLE, KY.

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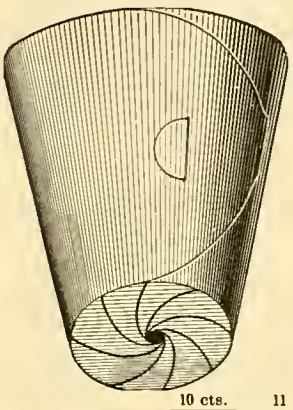
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Recommended for light and safe packing of tender and valuable plants, for the marketing of Ferns, Dutch Bulbs, Lily of the valley and the like.

Cost about 40 per cent less than earthen pots, and weight considerably lighter, thus saving in first cost and freight.

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R. & J. FARQUHAR, - - - - Boston, Mass.

Who furnish samples, by mail, postpaid, on receipt of

	10 cts.	11 cts.	14 cts.	17 cts.	22 cts.	40 cts.	60 cts.
For 1 dozen	2¼-in.	2½-in.	3-in.	3½-in.	4-in.	5-in.	6-inch pots.

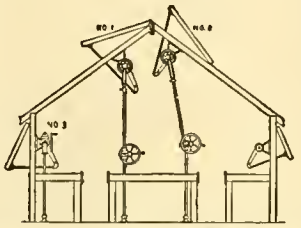
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The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

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THE MALTESE CROSS BRAND
THE VERY BEST OF GARDEN & LAWN
HOSE

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if your dealer does not have it send direct to the manufacturers

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159 and 161 S. Fifth Avenue, - NEW YORK,

NATURAL GAS MADE GLASS,

FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.

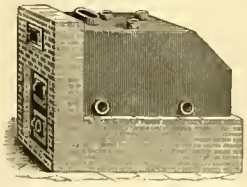
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1518 & 1520 S. 9th St.,
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Send for catalogue and price list.



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Superior Hot Water Boilers

JOHN A. SCOLLAY,
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Send for Catalogue.

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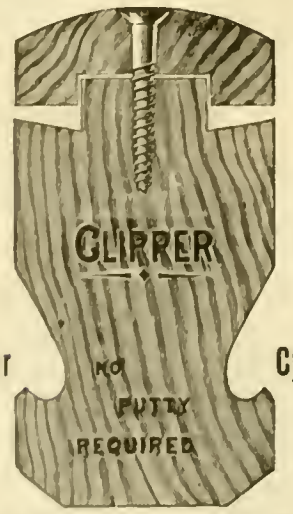
The cold storm wave which swept over the continent a few days ago seems to have been pretty general and did not forget to give this city a call. So far I have heard of no damage having been done, and since it passed the weather has been fine and mild; of the five inches of snow which fell only an isolated patch here and there in sheltered spots remained the day after as a remainder of what J. Pluvius Probs can do when he gets on a bender.

The cut flower trade is getting demoralized now and it is too late in the season to expect any improvement in that line. Some left over Easter lilies and other plants are being offered very low just now, but the general plant trade is brightening up a bit and will improve from this on.

I notice in Mr. W. J. Stewart's paper on "Ornamental Horticulture at the World's Fair" he deprecates the one judge system as un-American in principle. I should very much like to hear him explain how this can be. In our G. and F. Association the one judge is chosen by a majority of the members and I presume other associations, clubs and societies do likewise. Is not the President of the United States elected by a majority of the people as their chief officer? We here have found the one judge system work well and give more satisfaction than the three judge system. E.

CONCORD, N. H.—The florists of Concord have reason to feel well pleased with the results of Easter trade. The heaviest demand was for well grown specimens of lilies in pots; spireas also went well. There was considerable decorating done with palms, dracænas, etc. Large quantities of lilies were sold as cut flowers. The demand for carnations was excellent; although a fine crop awaited sale at the various local establishments, the Boston market had to help supply the demand. Tulips and violets went rather slow but finally everything in the shape of a flower was sold.

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MATERIAL FOR GREENHOUSES.

Send for Circulars and Testimonials.

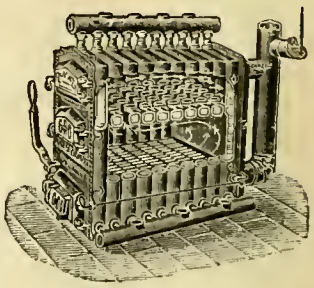
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SOLD ON THEIR MERITS AND NOT ON THEIR ANTIQUITY.

ROYAL HEATERS

THE RIGHT KIND of BOILER for a GREENHOUSE.



HART & CROUSE,

UTICA, N. Y.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Potterv Company,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
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Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS

Our new **Pottery**, new **Machinery**, the very **best Clay** in the **Country**, and our new **Patent Kilns**, all combined, make the **best Standard Pot in the market.** Send for price list.

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25 PER CENT. OFF for cash with order until further notice. A large stock on hand of good, strong pots. PRICE LIST, for any number:

1½-inch pots, per 100,	$3 00		3½-inch pots, per 100,	$7 25	
2 -inch pots, "	3 25		4 -inch pots, "	9 00	
2½-inch pots, "	3 50		5 -inch pots, "	13 80	
2½-inch pots, "	4 00		6 -inch pots, "	22 00	
-inch pots, "	5 00		7 -inch pots, "	35 00	

HILFINGER BROS. POTTERY,

Largest in the State. FORT EDWARD, N. Y.

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THE GREAT ANTIPEST.

For particulars, see next week.

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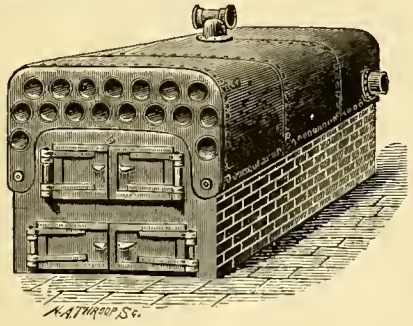
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Capacity from 350 to 10,000 feet of four-inch pipe.

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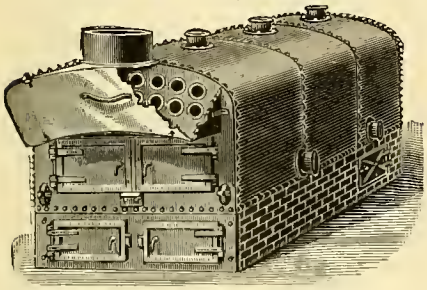
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Boilers made of the best of material. shell, firebox heets and heads of steel, water space all around front. sides and back). Write for information.

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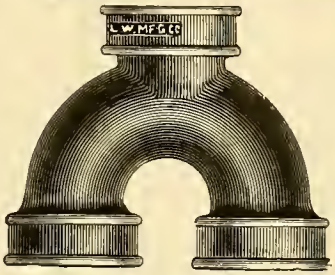
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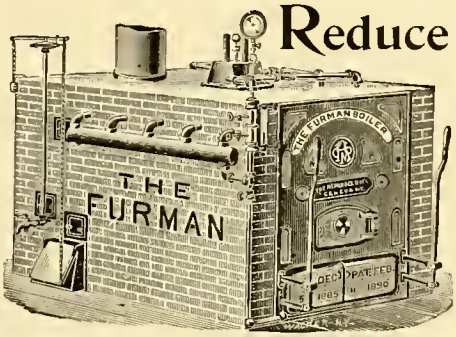
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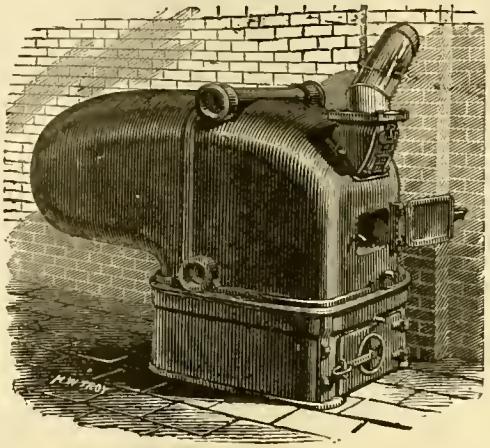
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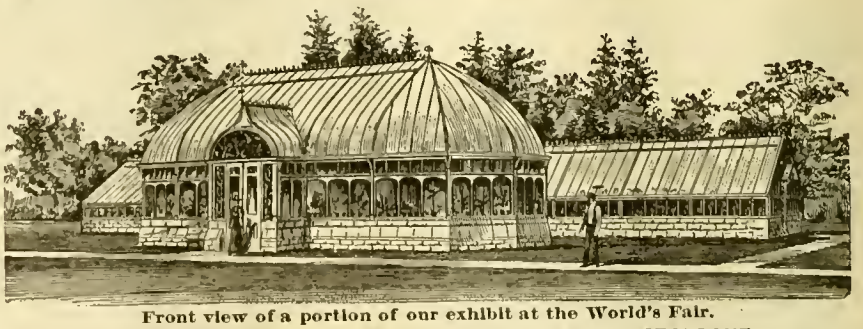
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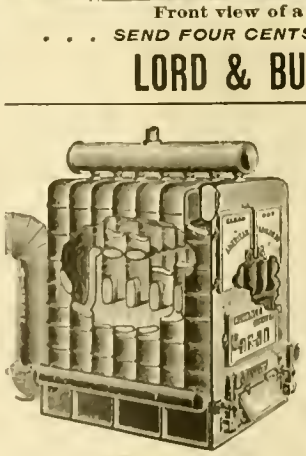
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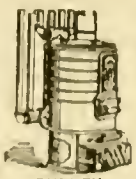
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Vol. IX. **CHICAGO AND NEW YORK, APRIL 26, 1894.** **No. 308**

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J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. Tenth annual meeting at Atlantic City, N. J., August, 1894.

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Hail Storms.

A hail storm struck the greenhouses of Chapin Bros. at Lincoln, Neb., last week. They were partially insured in the Florists' Hail Association. Secretary Esler reports numerous applications for insurance as a result of the storm.

A press dispatch from Clayton, N. Y., under date of April 20 says: "A fierce hail storm set in here at 7:15 o'clock tonight. Hailstones measuring from 5 to 8 inches in circumference covered the ground. This is a phenomenon never before experienced in this part of the country. Much damage was done."

DO YOU WANT the census statistics regarding the florist, nursery and seed trades? You will find them in our trade directory and reference book for 1894. Price $2.00.

Arrangement of Flowers.

SIMPLE BASKETS.

The arrangement of baskets is a subject that covers a wider range than that of any other division. Notwithstanding the fact that the demand for made-up baskets is not nearly as large as was the case in former years, still we receive constant orders for them, though not in as large numbers as could be desired from a financial standpoint, for in basket arrangement we can often use material to very good advantage which, on account of insufficient length of stem, can not be sold to good advantage as loose cut flowers. The main objection to the basket from the buyer's point of view is that the flowers wilt too quickly, often lasting but a few hours. The objection is well founded as regards the great majority of such arrangements, but the fault lies very often in the careless way in which the flowers are put in. If properly put up the flowers in a basket, if fresh, will last in good condition a reasonably long time, although of course not as well as when the stems are placed in water.

We find it to our profit to encourage the demand for this class of arrangements as much as possible, and to our mind the waning popularity of the basket can be resuscitated by giving a high standard of excellence in the manner of arrangement, and above all by giving careful attention to keeping the flowers from wilting as long as possible.

Almost all of the stock used for this class of work is stemmed on either picks or match sticks, but the fact that the pick only serves the purpose of enabling us to guide the flower stem into the moss is too often lost sight of and the pick or stick is regarded by the maker up as part of the stem and so long as the flower will hold in position very little attention is paid to whether the flower stem is firmly imbedded in the moss or not. It is no wonder that flowers, whose stems very often do not even reach the top of the moss, wilt so soon. This you will say is gross carelessness. True, even a novice in the business ought to know that flowers cannot keep under those conditions, and yet we find this practice indulged in by old and experienced hands. Not but what they know better; in fact we find it most apparent in the highest class of work; the keeping quality is too often lost sight of entirely for the sake of an artistic appearance; thus if a certain kind of flower is stemmed too short in order to give the desired effect, it is raised high and dry above the moss, and if the stick be too short another length is added; a few green leaves will hide the stick, which may carry the end of the flower stem 3 inches above the moss. Such a basket may meet the artistic ideas of the designer, and on first appearance be entirely satisfactory to the purchaser, but what about its usefulness? Tasteful arrangement should certainly be aimed at every time, without it we cannot progress, but it should not be placed above all other considerations if we ever expect the basket to regain its oldtime supremacy.

There is no form of arrangement that admits of greater diversity in style and form than does that of the basket, with hundreds of different shapes and forms, each one of which can be built up in an entirely different manner. It offers a splendid field to the ingenious maker-up.

The meaning of the term "basket" is rather vague as applied to the forms used in our business. The proper definition of what constitutes a basket has been a matter of debate from time to time but it is not our intention to go into this subject any further than is necessary. Let us call those forms baskets that are made of willow, celluloid, rattan or wire, either with or without handles, whether oval, round or square. Such forms as are used for table decoration form a different group, and will be considered when we reach that class. We will give our first attention to the simpler forms.

Our first illustration shows a high handle basket of a size such as can be put up at this season of the year for about $5, of such quality of mixed material as was used.

We have already shown how to moss up baskets in general, but as has been stated before, the style of basket must always be taken into consideration as regards the heights to which the moss should be raised. In the form under consideration it is well to have the moss rounded up fairly high. In the first place it will aid us in making a better display of the material, and besides we can also use short stemmed flowers to better advantage, and there will be no need to raise them up on stilts.

Now let us select the material. In the first place we want green around the edge of the basket. In this case we used wood ferns for the purpose, but if smilax is at hand this can be used also to good advantage. The short pieces found at the bottom of the plants after the strings have been cut out serves our purpose just as well. If the strings are used, cut in lengths according to the height of the basket, say 6 inches, and stem on tooth picks. If fern leaves are used stem also on picks; if too long break off a piece, stemming the two sections together, the piece containing the tip of leaf on top. Now arrange the green around the edge of the basket in such a manner that the vines or leaves will droop over the rim; cover the sphagnum in the center of the basket with green of such description as may be at hand, small bits of broken fern leaves, smilax and the like.

We prefer to drape the handle of the basket before the other flowers are arranged, but this is optional and can be

done after the basket is filled as well. Either smilax or a spray of Asparagus plumosus may be used. Select the top end of a piece, say of smilax, of sufficient length to reach over the handle, and fasten to the same by means of wire. Next run a spray of flowers up one side of the handle. Our illustration shows this to be formed of a combination of red roses and marguerites; as the top flowers on this spray cannot reach the moss we may wind in around the stems of the flowers some green sheet moss, which if wrapped tight and thoroughly wet will preserve the flowers; the stems of the flowers forming the lower part of the spray should be imbedded in the sphagnum.

For the body of the basket we use a variety of flowers, none of which will be required of very great length of stem, yet a number of them should be at least 6 inches long. If sufficiently stiff in stem no supporting wire should be used, but if weak treat them in the manner illustrated in our article on stemming. For a basket of this form we prefer the use of match-sticks, cut in lengths of about 5 inches, to that of picks, particularly as regards roses; cut them to a sharp point so as to be enabled to run the stems of the flowers well down into the moss. Roman hyacinths, daisies, adiantum and all the lighter forms can be stemmed on picks. The flowers used in this basket consisted of the following: Short stemmed Jacque roses, La France, Perles, Brides, Roman hyacinths, marguerites, and a few bright pansies. Commence the arrangement by starting at the center of the basket, selecting the longest stemmed flowers for this position, and continue down to the edge, drooping the last row of the flowers well over the rim. Don't set the flowers all at the same heights; the smaller buds of the roses should be raised above the level of the heavier forms. Be careful to preserve the character of the spray on your handle by running the same class of material pretty well down on that side of the basket. For foliage between the flowers adiantum serves our purpose admirably and greatly adds to the effect, but this fern wilts very quickly and great care should be taken to run the stems into the moss; but even then in a warm room it will not last any length of time. A. plumosus or A. tenuissimus, if at hand, answers equally well and will last much longer. In addition to the above mentioned varieties many other sorts can be used, such as small L. Harrisii, candidum, carnations of various colors, valley, violets, mignonette and many varieties of annuals in their season; only let us be careful when using a mixture not to place flowers of opposing shades of color in close proximity; this can be avoided by placing the neutral shades of white between.

Let us next consider a shape without a handle. Our second illustration shows a 12-inch oval flat arranged in an entirely different manner. Here the varieties are not mixed together, but each kind kept separate and the whole grouped together to form a harmonious combination. Such combinations can be made in almost endless variety; no two need be made exactly alike. The basket we illustrate is composed of Wootton, Perle and La France roses, marguerites, pansies, forget-me-not, and mignonette.

For green the same material may be used as was mentioned before, and arranged in the same manner, but as the design is lower the smilax and other green will not have to be quite so long.

In order to give a loose effect the flowers should be stemmed of a length not less than 5 inches, but have some larger than others. The first illustration of this basket shows the arrangement of the green and the section of Perles in the left hand side of the basket, with a few of the Woottons placed in the center. These Woottons are carried diagonally across the back of the basket to the right hand end of the piece, which is hidden from view. However, in the completed form, as shown in No. 3, the vacant place seen in No. 2, in the group of Perles, is filled in with a small clump of forget-me-not. Next is arranged a spray of marguerites separating the red from the pink roses. The remaining space in the front is filled in with La France. The last section of the basket, which however doesn't show in our picture, is made of pansies, a spray of mignonette forming the dividing lines between the pansies and Woottons. Adiantum is used freely to give the whole a graceful appearance. The lines of the sprays of marguerites and mignonette should not be drawn too sharply, but should intermingle with the flowers composing the sections through which they pass.

Smaller and less pretentious baskets than the ones illustrated are made, but for a new beginner these are generally more difficult to start in with than the larger ones. These and the more elaborate forms will form the subject of a future article.



Phaius.

Phaius are a genus of terrestrial orchids which flower principally in March and April and are thus valuable on that account. The old Phaius grandifolius being one of the earliest tropical orchids introduced to cultivation, is too well known to need description, but those who have not grown P. Wallichii, I would recommend to do so, it being so much more showy than grandifolius; also tuberculosus, which was introduced about twelve years ago and no doubt is the most beautiful of the genus. Humblotii, which was introduced about the same time, is very fine though not so beautiful as tuberculosus, moreover this species flowers in the summer months.

Then we have again the recent introduction of Phaius Sanderiana, which is a robust grower and a very decorative plant, carrying a flower spike five feet in height and individual flowers measuring six inches across, of a rich tawny brown color, margined white, yellow behind, lighter veins; lip large and well open, white, with rich brown throat, shaded with pink; a truly majestic and showy plant carrying on its massive spike about eighteen to twenty flowers and lasting long in perfection. This plant is of easy culture, growing in an ordinary cattleya house and requiring plenty of water during its growing period; in fact it is a gross feeder.

But the most interest is now centered on the new hybrid phaius which have recently been introduced. The Phaius Cooksoni, which is a hybrid between Phaius Wallichii X Phaius tuberculosus, and which we have now in flower, is indeed a very pleasing and interesting plant. The leaves are intermediate between parents, scapes shorter—ours eight flowered, flowers almost as large as P. Wallichii, sepals and petals light rose with yellowish brown along their middle, the left funnel shaped, broad, with a very crisped margin, basal half yellow, the rest of lip rose, spotted with carmine purple.

Phaius amabilis is another hybrid between Phaius grandifolius X Phaius tuberculosus and was raised by Mr. Seden two years ago. It is a very striking plant and a fit companion for P. Cooksoni. This is intermediate in form between parents, of good constitution having the vigor of grandifolius, and throwing up a sturdy spike about eighteen inches high with twelve large flowers over three inches across; the sepals and petals rose colored, the lip broad, well open and suffused over whole with rich carmine purple.

These plants should be repotted at this season immediately following their flowering, in a compost of fibrous loam and peat with sphagnum. Give plenty of drainage and pot firm. Liberal waterings should be given when in active growth and when pseudo-bulbs are developing liquid manure can be used. Keep to the light but from direct sunshine.

W. ROBINSON.

Orchids in Mr. Hicks Arnold's Conservatory, New York.

When the visitor observes the many genera amassed together under one structure, as we find them here, thriving luxuriantly, and rewarding the grower with ample bloom at all seasons, demonstrating the enthusiasm of their owner and the watchful care of his cultivator, Mr. Morris, he cannot resist expressing much admiration and praise for the diligent observations as to the varied requirements of so many valuable treasures.

Owing to the limited space available for their reception, only the most select forms have from time to time been added. Cattleyas, lælias, dendrobiums cypripediums in quantity, ærides, vandas, saccolabiums, sobralias, phajus, lycastes and odontoglossums, some of the warmer kinds, are placed from stage to roof in all positions so that the house resembles a veritable forest, the walls at each end being tastefully covered with selaginella, begonias, ferns in variety, Ficus repens, Panax Victoriæ—in fact everything to aid moisture, and provided with every essential for the wellbeing of the plants. The air at all times is charged with humidity produced by syringing this combination of plant life daily.

The cypripediums are well grown, and embrace a number of extreme rarity. Among them now in bloom is a beautiful example of C. Paris, a supposed hybrid between C. bellatulum and C. Stonei. It is a remarkable hybrid of great interest; the ground coloring of the sepal and petals is light cream, with a suffusion of pea green; at the base of the segments on either side of the broad dorsal sepal, also the apical portion, a light flush of purple is seen; the whole flower excepting the pouch is marked with numerous spots and lines of dark maroon purple, the pouch being light purple and suffused with pale rose. Although a decided acquisition it is unfortunately very rare.

Another interesting hybrid in bloom is C. Graynnum unicolor, carrying two flowers. In coloring it deviates from the existing forms, being much lighter. Its parents are C. Druryii and C. ciliolare, the coloring of the former predominating very much in the variety here noted.



ROUND HANDLE BASKET.
ARRANGEMENT OF FLOWERS.

Many of the best varieties of C. Curtisii may be seen in this collection; the variety named platypetalum is remarkable for size of pouch and breadth of petal. C. Germinyanum, C. Louryanum, and C. Chamberlainianum are in bloom, the latter in several pretty varieties, also a fine lot of C. callosum, some of the flowers being immense. C. Sanderianum grows here with surprising vigor, and blooms annually from comparatively small plants.

Among the cattleyas are many gems of great value. A most exquisite form of Cattleya Trianæ alba carries four blossoms perfect in shape and of fine substance, with a broad labellum handsomely frilled. In dark varieties C. Trianæ Smithiæ is one of the finest, having broad sepals and round undulated petals very rich in color, and a superb labellum bordered with a very thick frill.

C. Lawrenceana does well here; its glowing purple blossoms are very effective, the plants are grown in baskets, suspended in a position where they receive light and air in abundance during their growing season, and a copious supply of water. This is a good orchid, but is every day becoming a more valuable plant; importations of it are not numerous, its native country only being reached by suffering severe hardships and danger to health. Cattleya Mendelii is now pushing forth its flowers, and here is found the rare and remarkable Quorn House variety, a superb white form with enormous flowers of a very chaste character. Lælio-Cattleya Arnoldiana, one of the finest hybrids ever raised, is represented here by two healthy specimens, and will shortly be in bloom, C. Aclandiæ is in flower, growing freely on rafts, Epidendrum prismatorocarpum has several spikes, and there are many other equally showy things.

The collection of Lælia anceps is a very choice one, L. a. Ballantineana, L. a. stella, L. a. Schroderiana, the finest of all the white forms, L. a. Sanderiana, L. a. Dawsonii, L. a. Hillii, L. a. alba, the snow white form with a pea green throat, all were flowering this past season in profusion.

To ensure such excellent results every facility is utilized to surround the plants with air, moisture, and light in abundance, especially while in active growth, a watchful eye being kept for all such enemies as slugs, thrips, and scale. No hard and fast rules can be adopted for the well-being of the plants, where one or two houses are only available. Many varieties may be grown with satisfactory results, providing a careful observation is given to the plant's requirements. If they do not succeed in one position give them a trial in various quarters of the houses until success is assured by finally securing a place the plant will enjoy.

A. DIMMOCK.

Ferns and their Culture.

BY E. ASMUS, JR.

[*Read before the New Jersey Social Florists' Club, April 5.*]

Ferns are at the present time in such great demand that I have chosen them for my subject. Few plants are put to so many uses, both for indoor and outdoor decoration. I should say that there are few plants that give more pleasure through the entire season than a collection of ferns. They are flowerless plants, and belong to the natural order of Filices. There are few orders of plants which have such a wide distribution, being found in the tropics, in the temperate zones, on high mountain ranges, and as far north as Labrador and Greenland. Some varieties grow in the dense shade, such as Todea superba and trichomanes; some in partially shaded places on the margins of woods, on the hillsides and along stone walls, like most of our native ferns, such as osmundas and aspleniums. A few varieties, such as nothochlæna and cheilanthes, grow in the driest sun. Some varieties are very small, while others again are very large, the Dicksonia antarctica reaching a height of twenty to thirty feet in its native habitat. Some varieties have creeping rhizomes, and grow upon rocks and trees, while others throw out their fronds from crowns, like Lomaria gibba and other varieties of the tree fern family. Still, under these varied conditions, they are a very easily cultivated class of plants if their requirements are carefully looked after. The best lesson can be obtained by observing some of our native ferns in their natural haunts.

Beginning with the fern from the spore state is a very interesting study. The first thing to be done is to procure good, fresh spores, these being the reproductive organs. They should be carefully saved and each variety tied up in a separate bag, so that there will be no danger of their becoming mixed, for they are so small, and even finer than the proverbial mustard seed. When they are good and dry they readily loosen themselves from the back of the frond to which they are attached. After the seed is properly cleaned the next thing to be done is to secure the proper material on which to sow them. The best material I have found is a mixture of leaf mold and fine peat run through a fine screen to take out all fine roots and small sticks to facilitate pricking them off at a later date. After soil has been prepared, secure some good clean pots. (Be sure they are well washed, new pots being in all cases best.) Fill these with some good drainage to about an inch from the top. I have found coal ashes the best material for this purpose. Then place soil on top, firm well, and give a thorough watering before sowing the spores. After they are sown the pots should be placed in a close frame until the ferns are up, but during that time they should never be watered overhead. If they should become dry put pots in some vessel containing water and let the water soak up from the bottom of the pot. When the spores are in the prothallus state, which is the most critical time, great care must be taken against damping.

When large enough, which can only be learned by close observation, they should be pricked off in flats filled with the same mixture on which they were sown, in small blocks about a quarter of an inch square and placed about an inch apart each way. These flats should then be placed in a warm frame or near the glass in a warm, close house, covered with

glass, and closely watched, going over them every morning to look out for fungus, which is so apt to appear when they are in this state. The best thing to do is to pick the affected part out and cover the place with a little slacked lime, so that the fungus will not go any further, as, if care is not taken in this respect it will spread over the entire flat in a few days. Great care must also be taken in watering, never allowing the soil to become sodden. When the plants have reached the state that one or two small leaves can be seen, the glass can be removed and flats placed in a somewhat cooler house on a bench near the glass, shaded from the direct rays of the sun. When the plants are large enough for 2-inch pots, which will be about six months from the time of sowing, they should be potted in a mixture of good loam with an addition of well rotted leaf mold or horse manure. I think the latter preferable, owing to the strong feeding qualities of most ferns, especially adiantums. There should also be added a little sand to keep the soil open. After they are potted the house should be kept quite close for a while, until they have received a start, when the temperature can be gradually reduced.

In watering great care is very essential. Although they are great moisture loving plants, they should never receive so much that the soil becomes sodden; neither should they be allowed to become dry, for if fern fronds once become wilted they will never revive. Never water overhead, especially such varieties as Adiantum Farleyense, the gymnogramme family, and many others, or their beauty will be marred.

Ventilation should always be looked after carefully, giving a little on all bright and warm days, but never giving too much to cause any cold draughts, with Adiantum Farleyense in particular.

Shading is another very important factor in their successful culture. Although they are, as a rule, with very few exceptions, a shade loving plant, it should never be attempted to grow them under the benches or some dark out-of-the-way-corner. The best results are almost in all cases obtained when they are grown in a good light house, near the glass, with enough shading to keep the hot rays of the sun from scorching them.



Carnation Notes.

The most formidable enemy the carnation has at this season of the year is the red spider; rust and other diseases are injurious but the spider, if it gets a start, is positively ruinous. He can destroy more in a week than rust will all season and is a hundred times as hard to fight. If the carnation was an aquatic plant that we could use water on it without limit (that is the best remedy) we would be all right, but it is not and an attempt to clean up a bad case of spider is likely to be very injurious to the plants, as the spider is very hard to get at completely on a carnation plant.

There are remedies galore for the spider and all are good or fairly good when you hit the spider, but the trouble is to hit him. I have tried them all, my last experiment being with salt water, but I have yet to find a satisfactory cure. A grower who recently visited my place and saw the experiments suggested that alum water be put on hot; he had heard some one say it was good. So that will be my next experiment. I would like to know if anyone has a good and practical remedy for the spider and there are lots of other growers would like to know the same thing.

You will likely want to run your carnations until Decoration Day at least and more than likely for the commencements, so whenever you have a little time to spare use it in keeping them in good shape tied up nicely and weeded; the flowers will be enough better to pay well for the time. Disbudding will keep your plants in better growing shape and pay for itself in the increased value of the flower. Golden Triumph is not a popular flower but I am producing blooms of it by disbudding that will put to shame any other yellow in the market. I am not saying this to recommend this variety, for taking the season from beginning to end it will not have paid me to grow it, but as an object lesson in disbudding it is a decided success. It is well to shade the houses with a mixture of naptha and white lead and thus save considerable time in watering and also keep the color of the flowers better. If your houses are not shaded, such varieties as Portia and all bright colors will lose their color a day after they are opened.

The young plants should be planted out now as fast as you can. If they have been potted and are pot bound it is well, as they are knocked out of the pots, to take a knife and cut the roots on each of two sides of the pots so as to induce them to break new fibres quickly. Cuttings can be planted direct from the sand bed with a little extra care and preparation of the soil, and of course such plants should be put out only in good growing weather. It is not advisable to plant rooted cuttings out direct that have been shipped to you; it will pay well to plant them in trays and take good care of them until they have made a nice lot of those little fibrous white roots; they can then be planted out with success.

A. M. HERR.



12-INCH OVAL FLAT PARTLY FILLED.

ARRANGEMENT OF FLOWERS.

The Shrubs of Toronto's Lawns.

BY D. W. BEADLE.

[*Read before the Toronto Gardeners' and Florists' Association at the April meeting.*]

Visitors to our city have frequently remarked that its citizens seem to have a singular fondness for pollarded shrubs, and express surprise that a style so unnatural and inartistic should have become so prevalent. Are the gardeners, it is asked, so ignorant of the rudiments of their calling that they know nothing better than to shear off the tops? Were they to set an array of old time birch brooms, brush end up, they would be scarcely less becoming.

In the early days of ornamental gardening all kinds of fanciful forms were given to trees, hedges and shrubs. This style of pruning had some claim to being a work of art, and an exhibition of the gardener's skill. It can not be said that this pollarding exhibits skill, or is in any sense a work of art, for any horse or cow in browsing them could do as much.

Shrubs are supposed to be planted as an adornment of the grounds. Each species has its individual style of growth, wherein lies its own expression of beauty. It is this individuality, especially when the time of inflorescence is past, that gives variety and attractiveness to the lawn. The eye of the true gardener perceives the charm of the natural form of each, and prunes so as to preserve and develop the distinguishing feature of the several varities. Herein is manifested his appreciation of the varied beauty of nature, and his skill in giving it full expression. But the cropping system wholly destroys this naturalness. It gives to all an unvarying uniformity, and to the eye of every lover of nature a very distressing unsightliness. Beside, much of the bloom is shorn away, so that when in flower much of their brightness and beauty is lost, and thus the very object for which they are planted is defeated.

Not every man who can run a hand-



12-INCH OVAL FLAT FILLED.

ARRANGEMENT OF FLOWERS.

mower has the eye and the hand of the experienced gardener, nor can it be expected that skilled labor can be purchased at the cost of mere muscular force. If this style of trimming is the outcome of a matter of economy, we suggest that it would be not only more economical, but also much more ornamental to leave the lawn without shrubs. Such misshapen caricatures of nature are no ornament. The beauty of many of Toronto's lawns, and the attractiveness of the city to its visitors, would be greatly enhanced if these pollarded shrubs were all dug up and consigned to the brush-heap.

Among Chicago Growers.

LAKE FOREST.

The first section of the McCormick rose houses at Lake Forest was built years ago and consisted of 2 houses 30x150. These were built in what at that time was considered the most approved style for rose growing. This style of construction as well as the manner of growing roses on benches in 3 inches of soil, was quite an innovation at the time. As little or nothing was known in the west of the merits of this mode of growing, our local talent looked on in a rather skeptical way predicting all manner of failures, but the result soon proved it a complete success. But this establishment was not alone the pioneer in the growing of roses in a radically different manner from that practiced before; it also introduced in our market what were at that time called fancy roses. The varieties grown were Mermets, Perles, Niphetos and Cook. The Cooks, by the way, were grown in pots and such flowers as were produced here the first season were never seen since, either at this, or any other establishment around Chicago. Cook has disappeared from our markets entirely since the advent of the Bride, Niphetos is going fast, and Mermet has probably seen her best days. Perle is about the only one of the old sorts that has as yet no formidable rival to dispute honors. While the Mermet has seen her best days the sterling good qualities of this popular sort are as unimpaired as ever, but her rival, the Bridesmaid, is such a decided improvement as regards color that the older variety will in all probability be relegated to the rear to a certain extent. But although Mermet will cease to be a dominant factor as a pink variety in our market, we doubt if it will ever be crowded out entirely.

Many growers, particularly those who were caught in the Waban craze a few years ago, are rather cautious about investing in any new pink variety. "Mermet is good enough for me; let some other fool experiment with new varieties; I have been bit often enough," are expressions we meet with quite frequently. Yet the good qualities of the Bridesmaid are no longer a matter of speculation. Any grower so disposed can investigate for himself by seeing it grow at various establishments around the city.

Mr. Kennedy, an experienced grower, who manages the affairs of this establishment, in speaking of this variety says: "My experience with this rose the present season, is such that I feel warranted in recommending it very highly. With me it has proved the best paying variety we grow. I bought last spring 1,000 plants from the house that introduced this sort. Being personally acquainted with Mr. Moore I relied upon his judgment as to the merit of this rose, but I must admit that I didn't feel quite easy in my mind. The thought of the Waban was still a nightmare to me, but all I can say now is, that I wish I had bought 3,000 instead of 1,000. You will notice that these roses are planted in various situations in different houses. Here is one lot on a front bench, another on a center bench, and still another is grown on the rear bench of a house. I did this to test the variety thoroughly. There is little if any difference in any of them. The habit of this rose is certainly as good as that of Mermet, with me it seems even a stronger grower, and as regards yield fully as good. I intend to bench at least 3,000 plants this spring."

One house we find already planted with young stock, which was benched about March 1; the balance will be planted later.

Mermets and Brides are just coming in with a fine crop. Most of these are young stock, but we find several tables of 2-year old plants looking exceptionally good. These Mr. K. informs us have yielded a larger crop than the young plants but the buds average a trifle smaller. Gontier and Perle also look well. Of the latter there is one, the lower one of the tier of center tables, the soil of which is covered with a black water lichen which makes its appearance in the same spot every year but has never spread beyond the limits of this bed and is found growing on the soil underneath the bench in great profusion. The appearance of this bench would indicate that the soil is waterlogged and sour, but such is not the case. The lichen, which forms a thin black and shiny crust on top, leaves the soil underneath in good condition and apparently does little injury to the roses, which look quite healthy and thrifty. The soil on the bed is of course removed every year and the house underneath has been regularly cleaned out. The house, like all the rest, is high and airy and the walks of cement, but yet the lichen sticks.

Beauties have done but little this year. Meteor also doesn't look very well. "I have tried Meteor in various ways," says Mr. Kennedy, "but with me it is very unsatisfactory in winter. This year we grow it in a house where an abundance of heat can be supplied at all times, but the result is as disappointing as ever. During fall and up to the end of December it behaves well enough, but during winter most of the blooms are badly crippled and off color."

A change has recently been made in the heating apparatus to overhead flow, and return pipes underneath. This system is much more satisfactory than the former mode of heating underneath. "I found," says Mr. K., "that at certain seasons of the winter the young growth of the plants, more particularly on the highest benches nearest the top of the houses, got badly affected from what I determined to be an overabundance of moisture at the top. The young shoots would often drop their leaves, and sometimes damp off entirely. Since the flow pipe has been placed overhead this trouble has disappeared."

At Mr. Parcell's place we note a sport of the Bride which appears to have merit. The flower is striped and veined with pink the shade of Bridesmaid, and is quite pleasing in appearance. The sport appeared last winter. Four plants were propagated from the shoot, three of which are seen in bloom now. All the blooms show the variegation in the flower quite true to the original. There seems to be little doubt of the color being "fixed," but how far it may prove of value as a commercial flower we are not prepared to say. Mr. Parcell proposes to grow it another season on a more extensive scale, and we may then be enabled to judge of its merits more correctly.

Hild Bros. place is looking well. Their La France are just coming in with a fine crop and are the best around this section of country. The balance of the stock grown consists of such varieties as Mermet, Bride, Gontier, Perle and Beauty. Here we meet with a number of plants of the climbing form of the Perle just breaking into bloom. "But," says Mr. George Hild, "it don't pay to grow. These are the first flowers that have showed this winter. It will yield a heavy crop in spring, but what is the use when you get no result during the season when the flowers have any value?"

Calvert & Sons grow in addition to cutflowers a line of miscellaneous plants. We noted particularly a finely grown batch of campanulas, mostly in full bloom, making a splendid show. Also a very fine lot of Harrisii with from 10 to 12 blooms on the stalk, which is quite remarkable from the fact that these are produced from small bulbs, 5 to 7 inch. The blooms too are very large and of firm texture.

The range of rose houses, with the exception of Beauties, look well. Bridesmaid is to the front here also. Two benches of these plants are in fine crop and are in every way considered most satisfactory by Mr. C.

Looking through the rose houses Mr. Calvert called our attention to two different sections of a bench each containing about two dozen plants, one of Perles and the other Mermets, which looked sickly and stunted, while on either side of them the same varieties grew strong and thrifty. "I did some little experimenting," explains Mr. C., "I thought I would try how much manure a rose will stand, so last fall I filled in this section of the tables with about an inch of cow manure in the bottom; on this was placed the regular rose soil. Well all I can say is, that it isn't likely I shall try it again."

An interesting piece of machinery in use here is an electric vapor force pump. The motive power is furnished by a small electric battery which developes a vapor from gasoline which is led by means of a pipe from a tank containing about a barrel of the oil to the machine. The pump can be started up at a minute's notice by simply giving a few rapid turns to the flywheel which sets the battery in motion. We are not electrician nor machinist enough to describe this apparatus in detail, although it is very simple. The cost of operating the pump is very small, estimated at about 5 cents a day by Mr. C., and in every way as efficient as steam power.

We are glad to see Mr. Fred. Andermann back at his post again in much improved health, after an absence of about 5 months spent at the sanitarium at Battle Creek, Mich. Owing to Mr. A.'s inability to superintend the affairs of his establishment personally, the roses this season have not done as well as we have been accustomed to see them in former years, but there is a fine showing for a good crop this spring, particularly in Perles, Goatiers and La France.

Mr. A. also contemplates making a change in his mode of heating by adopting the overhead flow system.

Fern Spores.

The most satisfactory method of keeping up a supply of small ferns for filling fern pans and for mantel decorations, is by means of successive sowings of home grown spores in such quantities as one's trade demands. And in order to furnish the necessary spores for this purpose a few plants of each of the most suitable species and varieties should be grown on into moderate sized specimens, 6-inch pots being large enough for most of them.

The plants selected for this use should be given plenty of ventilation and not too heavy shading in order to secure a strong and sturdy growth, for when these stock plants make a soft and flabby growth the yield of spores is not nearly so large, nor do they ripen so rapidly. Some spores will doubtless be dropped before the fronds are gathered, and these self-sown spores may be made to contribute to the general stock by spreading some loam or even clay among the plants on the bench, this being quite a congenial material for the stray spores to germinate on, and has frequently given very satisfactory results with Adiantum cuneatum especially, the young seedlings being carefully removed in small clusters from the clay and pricked out into pans or boxes as soon as they become large enough to be handled.

It is a somewhat difficult matter to lay down rules for the gathering of fern spores, close observation and experience being needed to insure success, for while some imperfectly ripened spores will probably germinate (as will many other unripe seeds), yet it is quite possible that the seedlings will not develop beyond the embryo form, or prothallus, and thus valuable space, time and patience may be wasted while waiting for further growth of such seedlings. But it is usually a safe guide to watch for the opening of the spore cases, and for a slightly dusty appearance of the fruit dots or collections of spores of whatever form. It is then good practice to gather the whole frond, or as many of them as appear in that condition, and to wrap them up in some clean paper and then place the package in a dry and moderately warm place until the fronds are quite dry and ready for cleaning up, the time required for this drying varying with the conditions of weather and surroundings. By the time the fronds are quite dry and brittle, most of the spores will be found to be discharged from their cases into the paper, and will require no further cleaning, but as some will still adhere to the fronds it is aa economical method to rub the frond between the hands in order to remove the remaining spores, and then to pass the product through a very fine sieve, one with No. 40 mesh being well adapted for the purpose, and will retain nearly all the rubbish. The spores should then be poured into small vials such as those used for homeopathic remedies, and corked up, when they may be kept in good condition for a considerable length of time, some species germinating freely after several years storage. This bottling method is a neat and satisfactory way to pack the spores away until they are needed, and is much superior to the plan of putting them away in paper packages.

There is naturally considerable variation in the time of germination of different species of fern spores, the strong and rapid growers, for instance, some of the pteris, are among the quickest to show signs of growth in the seed pan, a week or two sufficing to prove their vitality in the springtime, while some other species may take five or six weeks to show as much progress. It is not yet too late to sow some of the strong growing kinds in readiness for next winter's trade, Adiantum cuneatum, Pteris cretica in variety, P. serrulata and Onychium Japonicum all having time enough to make salable stock yet, in fact the prevailing style of fern pan demands quite small plants in order to produce the best effect, and if the pteris are sown too early they may become too tall for the purpose. The spores should be sown on the surface of some fine soil, the soil being made moderately firm before sowing, and 6-inch pans or pots are the most suitable size in which to sow.

In after treatment it may be added that the seed pots should never be allowed to become dry, but be kept uniformly moist by watering from the bottom, at the same time protecting them from sunshine and keeping a night temperature of 65°, and as soon as the spores have germinated admitting sufficient ventilation to remove surplus moisture and prevent damping off.

W. H. TAPLIN.

OBITUARY.

MYRON A. HUNT.

We deeply regret to have to announce the death of Myron A. Hunt at his home in Terre Haute, Ind., the morning of April 23d. Mr. Hunt took his own life during a fit of temporary insanity brought on by several months of illness and by great anxiety for his wife, who has been pronounced hopelessly insane.

As is well known to all in the trade Mr. Hunt has been treasurer of the Society of American Florists since its organization nearly 10 years ago. He was also at the time of his death president of the American Rose Society, treasurer of the Florists' Hail Association, and also of the National Chrysanthemum Society of America. He was of a genial, kindly nature and not only made friends readily but retained them, and his friends and admirers in the trade were legion. At the last convention of the S. A. F. he was nominated for the presidency but declined the honor, as he preferred to continue to serve the society in the office with the work of which he was so familiar.

Mr. Hunt was born at Sunderland, Mass., in 1838 and was 56 years of age at the time of his death. In 1870 he came to Chicago, entered into partnership with Mr. George Miller under the firm name of Miller & Hunt, and devoted himself to the growing of early vegetables for the Chicago market. In 1875 the firm entered the florist's business, devoting their glass to the growing of plants for the catalogue trade, in which they were the pioneers in that section. They did a large business, growing much stock for the wholesale trade also, and in addition conducted a pottery for the manufacture of flower pots in connection with their other business. They also established a large greenhouse plant at Terre Haute, Ind., for the growing of cut flowers for the Chicago market, finding there better soil and cheaper fuel than were to be had nearer the latter city. In 1881 the partnership was dissolved, Mr. Miller retaining the Chicago establishment and the wholesale shipping trade in plants, and Mr. Hunt taking the Terre Haute plant and the catalogue mail trade. Later on Mr. Hunt disposed of his catalogue business and gave all his attention to the growing of cut flowers, mainly roses, and his stock was an important factor in the Chicago market.

He was one of the few who bore the brunt of the work incidental to the organization of the Society of American Florists, and was tireless in his efforts to advance the interests of that body in its early days when support and encouragement were so essential to its existence, as well as in the later years of success and prosperity.

His book "How to grow cut flowers," which was a simple relation of his own practical experience in his chosen field, met with immediate success, and a new and revised edition was issued not long since.

He was a man of rigid integrity, devoted to the principles he exemplified in his daily life, of great kindness of heart and generosity. He was a consistent Christian gentleman in all that the term implies.

In addition to his widow, whose sad affliction was largely the cause of the fit of despondency in which his own life was cut short, seven children survive him.



THE LATE MYRON A. HUNT.

The oldest, a daughter, is married. The next oldest is a son aged 20, upon whom will probably devolve the carrying on of the business.

The funeral was held Thursday, the 26th inst., and was attended by many friends in the trade from a distance, and the various trade organizations with which he was so prominently connected were represented by suitable floral emblems expressive of the grief felt at his death and sympathy for his family in their great affliction.

Mr. H. B. Beatty, Oil City, Pa., secretary of the Florists' Protective Association and of the American Rose Society telegraphs us as follows:

"I am deeply shocked and grieved at the death of M. A. Hunt. Floriculture loses a devoted, talented and enthusiastic lover; the Society of American Florists a firm supporter and valued councilor, and we all a firm and loving friend. Convey my heartfelt sympathy to bereaved ones."

And we know that Mr. Beatty has voiced the feelings of every one in the trade.

Miscellaneous Seasonable Hints.

The general florist is not supposed to be in the tree and shrub business, but he will nevertheless get called upon to supply a good many articles that are not greenhouse plants, and it pays him to be able to supply his customers with many desirable things at a fair paying price, which he can handle without much outside room, and which the tree peddler would charge treble the price for, regardless of whether it ever grew or not. It will help you very much to get your customers supplied at once (providing they want them) with all herbaceous plants, flowering shrubs, if you handle them, clematis, Ampelopsis Veitchii, in fact all hardy deciduous plants. When you can get all these little wants attended to you won't be bothered with them when the grand rush is on at the end of May; besides that it is the right time to plant them.

Your customers should be told that now, or even earlier, is the time to plant pansies, and not wait until the hot weather arrives, when coleus thrive out of doors. It is your duty to let your customers know these facts, for, simple as they are, it is surprising the amount of ignorance which prevails on such subjects among ordinary intelligent people.

This is a most critical time with most soft wooded plants and will need the exercise of much more brains and care to keep everything in good growing condition than was required in midwinter, when you were bound to keep a good fire. In this latitude it is poor policy to give up fire heat, unless extraordinary warm weather occurs, before the middle of May. The proper way to manage is to get all the plants that must have fire heat into a house or houses by themselves, and those that can with good management do without artificial heat into other houses. Geraniums and the show pelargoniums, if they have been grown with plenty of air and light, can get along fairly well without fire heat, providing they have plenty of air night and day and no shade on the glass, and so can many others of the cool greenhouse plants. Coleus, if deprived of a genial heat before the middle of May, or before the temperature stands steadily at 65° every night, will stand still, and even then a dampness exists without fire heat which is very detrimental to many plants. Try and get your coleus, acalypha, caladiums, cannas and all such plants where they can have a little fire heat for several weeks longer, but don't forget plenty of air at the same time. Fire heat won't make them soft, if you have plenty of light and ventilation.

You will soon have most of your spring stock potted into their last shift before selling. It is no waste of time to do a good deal of setting over, and with many plants it is highly necessary. They are growing fast now, and will be quickly injured if allowed to remain crowded. It is a small expense to stand over one thousand 4-inch geraniums, say one dollar, and this you will get back tenfold in the superior quality of the plants when given the proper space.

Don't let your zonal geraniums flower themselves to death before selling time. If you can't use the flowers for cheap bunches of flowers then break them off and throw away.

There is only one place for that beautiful plant, the lobelia in 3-inch pots, and that is a shelf or edge of a bench. They may not last all summer, but they are indispensable in a vase or veranda box.

The hotbeds will help relieve you very much in bench room, and a mild hotbed even if filled as late as May 1, will bring along many plants far better than a greenhouse. Here is a list of what I put into the hotbeds: Alternanthera, sweet alyssum, satolina, heliotrope, tuberoses, verbenas, variegated and bronze geraniums, coleus late crop rose geraniums, lemon verbena, petunias, mignonette, and others if I get crowded.

Have you seen Cytisus Andreanus? It is a most attractive plant, and I predict for it a popular time as a pot plant, even if it be a brief time. In habit it is very like the common English broom, but its flowers are as gay as Mimulus maculosus. It can be bought of any of the gentlemen who send you azaleas and lilac, and is bound to sell for a year or two.

WILLIAM SCOTT.

Nephrolepis exaltata and Rubbers.

ED. AM. FLORIST: I would like to know from some of the readers of your paper how the stock of Nephrolepis exaltata is increased, what kind of soil they are best adapted to, what temperature they require and if they want bottom heat.

Also how to propagate the rubber plant to have nice plants for fall sale, and what temperature they ought to have after they are propagated. R. M.

Nephrolepis exaltata is propagated either from spores or by division, and for the latter purpose it is a good plan to plant out a few plants on a bench in the greenhouse, using ordinary potting soil, and shading the glass over the plants. In a short time they will begin to throw out rhizomes somewhat like strawberry runners, and these will soon produce young plants which should be cut off and potted up, but will need to be kept rather close and well shaded until they become established. The temperature of a rose house will be a satisfactory one for the nephrolepis.

Cuttings of rubber plants (Ficus elastica) usually root readily at this season, provided they are put in a propagating frame in which a steady bottom heat is

maintained, single joint cuttings being the most reliable to use in this method of propagation. The other method of increase, namely, by topping, gives much more shapely plants than the single eye cuttings, and is done by cutting the shoot half through and then binding up the wound with damp moss, the plants being kept in a warm house. Grow on the young plants in a temperature of about 70°, with a light shading on the house, and about Aug. 1st the plants may be put outdoors to harden off. W. H. T.

Caladiums.

This genus of highly ornamental plants is of very easy growth, and very useful for decorative purposes in summer. especially so to the amateur whose houses are stripped of plants at that season, the majority of greenhouse decorative plants being used for the purpose of outside work. At that season the caladiums fill the houses with a mass of brilliant color, which cannot be produced by any other plant. In the warmest weather they can be used out of doors with good effect, but it is best to grow them inside.

Caladiums should be grown in a mixture of turfy loam, peat, leaf mould, and well decomposed manure in about equal parts, adding some sand. Give the pots plenty of drainage, as they like an abundant supply of water, also a strong heat. The size of pots and the number of times that the plants are shifted should depend on the size of plants required; if only small plants are needed don't make the soil too rich, and keep in small pots, but if large specimens are the object it is scarcely possible to be too liberal to them in the matter of potting and feeding. As the beauty of the foliage begins to fade, less water should be given, gradually decreasing the supply until it is entirely withheld, then place the pots on their sides under the bench in a warm greenhouse, and occasionally if they get dust dry give a watering over the pots and to the soil that the pots lay on and they will come out all right in spring. If they get too dry some of them, especially the small rooting varieties, will be attacked with dry-rot, and when turned out for potting in spring nothing but the out side shell of the bulb remains.

They should be potted as soon as they start to grow in spring. They should first be potted in small pots and shifted as needed. They are increased by division of the tubers, taking care to have an eye with each piece; when divided dip the cut part of the tuber in plaster or air-slacked lime to prevent rot, and start in a good bottom heat. Many of the varieties have been introduced from Brazil and others are greenhouse hybrids.

Caladium argyrites is the smallest and most beautiful of the species. It is a beautiful little gem for any decorative purposes. The leaves are small, light green for the ground color, center and edges of leaf white, the remainder of leaf irregularly blotched and spotted with white.

C. Chantinii is a very robust and handsome variety the greater portion of the leaf crimson, blotched with white and margin of leaf dark green. C. Belleymeii, a fine species with large sagittate leaves, is nearly all white, the veins of the leaves forming a bright green network, sometimes tinged with pink. C. Meyerbeer is a garden hybrid somewhat of the style of Belleymeii but much superior to it. The ground color is white, the veins bright green and mid-rib deep red.

C. Wightii, a handsome and distinct variety; the leaves are large and broad, rich deep green, profusely dotted with spots of white and bright red, but neither colors are mixed together. C. Verschaffeltii; a rather dwarf grower with large heart-shaped leaves; the ground color bright green spotted bright red. C. Wallisii has dark green leaves, spotted pure white and the veins yellowish white. C. mirabile, a distinct and desirable variety with large broad leaves, ground color light green, spotted pure white. C. Reine Victoria is handsome; the margin and veins bright green and the ground white, marbled with rich crimson.

C. Emperor Napoleon, very showy, the center of the leaves flame color, the margin bright green spotted with carmine. C. Chelsonii, large leaves, center rose dotted with silvery spots, the rest of the leaves bright red and vermilion margined with deep green. A handsome and distinct variety. C. Baraquinii is very distinct and strong growing, the leaves very large, center of leaf deep red margined with green.

There are a great many garden hybrids not named here, some of them very distinct, and many of them similar in many respects to the older varieties. Amongst the new fancy hybrids that have been imported from Rio Janeiro of late years there are some wonderfully fine varieties, and it would pay any florist to grow a collection of them if only to make a show in his houses in the slack season, but I have found them to be a good plant for the retail trade in summer. JAS. S. TAPLIN.

Hackensack, N. J.

Antirrhinum Majus.

Nearly every one is familiar with the old fashioned snapdragon, Antirrhinum majus, as a garden flower, but few are aware of its merits as a cut flower for winter use. They produce much finer spikes under glass than they do in the open ground, as the illustration shows. The pure white, the different shades of yellow and the crimsons are the most useful colors; the white varieties being particularly so as they are very effective in funeral work, having much the same effect as fine orchids.

They grow readily from seed and when in flower the clear colors can be selected and cuttings taken from them; thus choice varieties may be continued from year to year and any quantity of any particular variety or color can be easily grown.

They make a very useful thing to put in after chrysanthemums, giving great quantities of flowers all through the late winter months. For this purpose cuttings may be struck in March or April and planted in the open ground during summer, or they may be struck in July and kept in small pots until they can be planted in the chrysanthemum beds. The early struck cuttings will give an earlier crop of flowers but they are not so easily handled as the latter.

For striking the cuttings a cool overhead temperature with gentle bottom heat will be found best and for growing the plants a temperature which will suit the carnation is just suited to them.

A. H. FEWKES.

Cool Growing.

Mr. W. R. Smith is a strong advocate of cool growing. Many of our greenhouse and stove plants (so called) he believes we seldom see in their best form, owing to the excessively high temperature in which they are commonly cultivated, and claims that we have still much to learn on this subject, as the name of the country from which a plant is introduced is not an exact guide, elevation being equivalent to latitude.

Among the numerous plants which he instances as proving in practice his theory is the well known Ficus Parcelli, everywhere classed as a stove plant, but which in his cool culture is less rank and coarse, and is much prettier than when grown at a high temperature.

Franciscea latifolia, with its beautiful blue and white flowers, although classed as a stove plant thrives much better in a cool house. Stromanthe (Phrynium) sanguineum when grown cool makes an elegant decorative plant and always blooms best when it gets plenty of air. Inga pulcherrima, the "Tassel Flower" of Mexico, seeds abundantly in full sunlight with a plentiful circulation of cool air, whereas under different circumstances, although it flowers well enough, no seed is produced.

Miconia Peruviana is a plant which Mr. Smith recommends as valuable for table decorative purposes if grown in a cool house.

Glazing.

The writer will have considerable glazing to do this coming season and desires to know the best, quickest and cheapest way to do it. Is there any saving in butting the glass, and does it give as good satisfaction as lapping? Is 14-inch width double strength glass as strong as 12 inch, and preferable to 16-inch?

SUBSCRIBER.

In reply to above there is nothing better than the regular way of glazing, with a good quality of putty, well bedded on the bars and the glass pressed down solidly into the same. Clean it off on the top smooth, fasten the glass in position with either well galvanized triangular points or zinc shoe brads; the latter are put in a little quicker than the other. In using the latter it is better to drive the bottom ones one-quarter of an inch below the top edge of the last light of glass put in before bedding the last glass in, pressing the same on the lower bars and when in position put two or four more, according to the size of the glass, one near the bottom edge and another a little nearer the middle if the glass is long.

To put the putty on with I have never seen anything better than an old table knife with the handle slightly bent back and the blade six or seven inches long, the edge ground off square instead of sharp. With this take a large slice of putty from the hand and cut it on; in other words put it on with the knife. A very little practice will make this a quick operation and a good quick, smart boy can bed putty as fast as two men can glaze behind him after he once gets into the practice of doing it.

About a quarter inch lap is good enough for all purposes and is really very much better than butting the glass; the trouble with the latter is that unless the glass is cut very true, there are cracks, one being above the other, which is sure to cause a good deal of leakage.

With reference to size of glass, double thick glass 16 inches wide and 20 to 24 inches long is really the best glass to use. The only objection that has been advanced so far that I have heard is that it costs more to repair when a light gets broken; 14 by 20 to 24 costs a little less than if two inches wider, this is the only objection that can be raised against it. It is strong



VASE OF ANTIRRHINUM MAJUS, PURE WHITE.

enough in all reason to stand any pressure brought to bear against it and makes the house that much lighter. One other important item is be sure that the wood has a good coating of paint on before glazing and the beveled rabbet of the bars well filled with putty; this is a great help to keep the putty under the glass, whereas when they are ploughed level the putty is sure to work out after a few years. We have houses here glazed under the beveled rabbet system and the putty is as sound as when put in, for the very reason that it cannot get out. Another very important item is just as soon as the putty gets set have a good coat of paint put on the outside before any bad weather gets an opportunity of working on the putty. A great deal depends upon the ability of doing this work quickly and upon the adaptibility of the operator to catch any improved method that may suggest itself as he goes along. Some A 1 glazers that I have employed here have been able to lay five hundred square feet of glass in ten hours without any apparently great effort, while others, calling themselves first-class glazers, have not been able to do much more than half that amount and not do the work any better either.

JOHN N. MAY.

Easter Reflections.

Reviewing the full returns from the entire country we note with much satisfaction that notwithstanding the general depression, Easter trade in a majority of instances exceeded that of any former season. This welcome repetition of the unvarying experience as recorded for each and every year since the AMERICAN FLORIST inaugurated these reports seven or eight years ago, furnishes an impressive illustration of the wonderful growth of the Easter trade. Plainly we have not yet reached the limit of Easter possibilities, and when we have been able to surpass all records this year may we not reasonably count upon piling it up a little higher next year?

So much for the extent of the trade; but there is another point which we cannot overlook, one which is also in line with the experience of past years, which is that Easter prices are still tending downward. Prices are in some degree affected by the date of the occasion, and there have been fluctuations resulting from the varying popularity of certain flowers, but waiving these exceptions the fact is that the drift has been unmistakably downward.

It is pertinent to enquire how long this tendency will continue and how much more of it the trade can stand. A large commission dealer was once heard to remark when discussing the low prices prevailing during an after Easter relapse, "It's strange, but the growers seem actually better satisfied with two cents for their roses now than they are with ten cents at Easter." But now that Easter can no longer be safely counted upon to bring to the grower extra profits sufficient to overcome any deficiency resulting from unprofitable returns at other times, and the "ten cents at Easter" is no longer forthcoming, the "two cents now" will not be regarded with so much complacency.

Plainly, the grower will hereafter need to proceed cautiously in determining as to what he will grow and what quantity of certain things the market will take without overstocking, whether for general trade or for Easter; for although the market is constantly increasing yet the steady shrinkage in prices indicates that the production is more than keeping pace with the increasing market, and as the margin of profit gets narrower the risk from miscalculation in deciding as to what and how much to grow becomes correspondingly greater. Our weekly reports from the larger cities are good indexes to the tendencies of the demand, and a grower who carefully studies these reports and bases his preparations upon the information gained therefrom will not be likely to go astray.

New York.

Growers and wholesalers find fault with the prices obtained for roses, and with good reason. There is entirely too much stock in the market for the limited demand, and the result is that while a small percentage is sold at tolerable prices the great bulk of the supply has to be unloaded at prices that are ridiculously low, five to ten dollars per thousand for all varieties as they run being the prevailing figure, and that even obtained with difficulty.

Carnations fare much better and the growers of carnations must be doing fairly well with the returns which their stock has been and is now bringing. Looking the subject over carefully, the only reasonable conclusion must be that there is too much glass devoted to rose growing in this vicinity, and the only reason for the better condition of the carnation market must be that the quantity of these flowers produced is more nearly balanced with the demand which exists. The great danger to the carnation industry lies in the probability of a stampede in that direction, of disgusted rose growers and others, in which case the carnation will get into the same box which the rose is in at present.

To decide as to the best use of the surplus glass for next year is a difficult matter. Bulb forcing offers no inducements, the trouble in that industry resulting not alone from overproduction, but also from a change of fancy in the buyers. Violets, chrysanthemums, hybrid roses, orchids, smilax, in fact everything which may be regarded as staple all have given evidence of being overdone the past season. The only field available is in novelties and this line is full of risk.

The quality of stock coming in at present is fairly good in roses. American Beauty has improved greatly within a short time, but it sells poorly. Violets are showing the effects of the spring weather and a few more warm days will finish them. The lilies coming in now are mostly longiflorums, Harrisiis being about at an end. Lily of the valley is very good, but no demand. Of other bulbous stock there is little seen, and lilacs have passed their best. Sweet peas in fair quantity and finest quality, white from J. J. Blauvelt, and Blanche Ferry from several growers are coming in to Burns & Raynor and are selling well.

The Mrs. Whitney rose is showing up in fine shape at J. N. May's. The grand foliage and rich red stems of this variety secure for it a high place among roses and its fragrance is unexcelled. Mr. May will have something new in the carnation line to show next season. He reports the demand for young roses, chrysanthe-

mums and carnations as fully up to the average this season.

On Saturday last several Broadway establishments, including certain well known florists, were cleverly taken in by a chap who worked an ingenious scheme for replenishing his cash pocket. Running into the store in hot haste and all out of breath he would announce that a cable car down street had run into and demolished a fine wagon bearing the name of the proprietor and that he had come at the request of the driver to report the fact and procure assistance. In each case he received a generous tip for his valuable services, but after the strictest search no broken team could be found, and the kind young man had likewise vanished.

August Rolker & Sons state that the paper flower pots have proved the best selling article in their store this spring.

The mother of J. W. Scallen, the Broadway florist, died on Friday, April 20, of pneumonia.

The executive committee of the Florists' Club are wrestling with the chrysanthemum show problem and the selection of a superintendent for the same.

Mr. Theo. Outerbridge of Bermuda is in town looking after lily bulb trade and incidentally endeavoring to explain the Bermuda Easter flower folly.

Sander's auction sale of orchids was a big success.

Chicago.

Has the past season been a profitable one to the dealer? That the present hard times have materially affected the cut flower trade admits of no doubt, and we could therefore not expect to record any increase in the amount of sales, as has been invariably the case in former years. The dealer who held his own this year may consider that he has done remarkably well. We subjoin a few remarks on the trade by some of our leading retail men in the downtown district. This locality differs largely from that situated in residence portions of the city (of which we shall speak later) in so far, that here our transient population who patronize the downtown hotels are quite an important part, and here also is felt most keenly the presence of the fakir.

Says M. F. Gallagher: "The business in the early part of the season up to Christmas was most discouragingly slow, and up to that time ran considerably behind last year. From the time the Fair closed and up to the first of the year the transient trade was dead. This was accounted for to a large extent by the fact that our large hotels were almost deserted at that time. Starting in with a first-class holiday trade business after that has steadily improved. The amount of sales are not quite equal to the last two years, but considering the times, quite satisfactory, and really better than was anticipated. I notice one feature of my business which is most gratifying, and that is a decided increase in the amount of cash sales in proportion to book accounts. We have had but few orders for large and costly decorations this season; most buyers are very conservative in their orders. The largest sales made are in the box trade and funeral work."

"Have you found any difficulty in securing the kind of stock called for?" "Yes mostly in the better class of roses, particularly Beauties. Of the latter I think that Chicago could use twice as many as are offered in the market. Violets too have run short for months at a time."

But let us drop in on our friend Joe Curran. "Well Joe, how is business?" "Rotten," is the prompt and characteristic reply. "But how does the season compare with former years?" "Business has been very quiet. Transient trade is not as good as last year, and orders for luncheon and dinner parties, on which I depend a good deal, have been few and far between. The holiday trade, both at Christmas and Easter, has been very good, and as the price of flowers was quite reasonable, the business proved fairly profitable. There has been little or no complaint about extortionate prices this year, owing to the fact that flowers could be offered at reasonable rates. It is doubtless owing to this fact that such a large amount of business was done notwithstanding the general hard times. The extreme fluctuation of prices at holiday times is very detrimental to business, and the sooner this is done away with the better it will be for all parties. The call for Beauties and the larger varieties of roses is constantly increasing and the supply was often short of demand. The same is true of violets."

Walter Kreitling tells nearly the same story. The aggregate amount of business done was less than last year; transient trade very quiet, demand for funeral work fairly good, but the absence of large orders for decorations is most noted.

Phil Hauswirth reports a fair trade for the season, though not quite as good as last year. Transient business very light. But as this establishment is situated pretty well uptown, not much is depended on in this line. Orders for decorations have been quite numerous, but on a rather smaller scale than former seasons. "How are orchids selling this season?" "The demand for orchids," replies Phil, "is increasing every year. I have handled a good many of them this year. I feel safe nowadays in taking orders for them, since there is little difficulty in getting them in quantity. Cattleyas of course take the lead, in fact the demand is limited almost entirely to cattleyas, with the exception of Odontoglossum crispum and a few forms of dendrobium and phælenopsis; few others are called for. Cypripedium won't sell at all."

O. J. Friedman reports a satisfactory trade, but as this establishment came into existence only last fall, no comparison can be drawn with former seasons. Mr. John Thorpe, who is connected with this house, says: "We found it often quite difficult to meet the demand for high class roses and fancy carnations, and often had to send long distances to procure what we wanted. The average stock sold in our market doesn't meet the wants of the customers. The demand for fancy carnations is particularly noticeable; there is no difficulty in getting good prices for a select article."

Chas. Fisk is located on State St., right in the very midst of the fakir. Says Mr. F.: "The business this season has been very poor. I notice a great falling off in trade from last year. I depend largely on transient business and this is affected greatly in my locality by the street vendors who fairly ruin my trade."

Mr. Andrew Miller, who manages the affairs of the Central Floral Co., reports a very fair trade for the season, but nevertheless business has not been as good as last season. He also complains of the presence of the fakir being detrimental to his trade to a marked degree.

The market last week was in a sadly demoralized condition. The glut of roses continued throughout the week, and meeting with no improved local demand prices were carried down to the lowest point yet reported. Large quantities, in job lots, were disposed of at $5 to $6 per 1000; $10 to $15 per 1000 bought a very good grade of stock, with $2 per 100 for selected; this later figure was sustained for all good stock sold in small quantities. Hybrids brought from $10 to $15, and Jacques $8 to $12. Beauties are quite plenty but no glut, $15 to $18 for good long stemmed, with a choice lot occasionally at $25.

On Monday this week the market opened in a much improved condition; the worst of the glut is apparently over and prices show a tendency to stiffen; no stock, if in good condition, is offered for less than $2, a number of the wholesale men being sold out clean before noon.

Carnations hold steady at $1 for good common sorts. Some extraordinary heavy shipments were made to outside points, which helped greatly to ease up the market on this flower. Kennicott Bros. Co. report a sale of 40,000 flowers in one shipment. Corbrey & McKellar, J. B. Deamud & Co., and the Niles Centre Co., also report shipments of from 10,000 to 15,000 at one clip.

Harrisii is badly overstocked; good stock is selling at $4. Prices of all other stock remains about the same as last week.

Arbutus has made its appearance again and seems as popular as ever; but no great quantity is on our market yet.

Fire caused a serious loss at the establishment of George Miller, at Hinsdale, about midnight on Sunday last. The fire started in the vicinity of the boiler room, which is situated at one end of a wide shed running through and dividing the two sections of houses, which open on either side of this shed. Although the fire was discovered almost as soon as it started the highly inflammable material in the shape of lumber, boxes, etc., aided by the presence near the boilers of a barrel of gasoline, which was accidentally or carelessly left with the faucet open allowing the dangerous fluid to escape (which probably caused the conflagration), made it a difficult matter to fight the fire successfully, and in a very short space of time the entire shed and the section of houses adjoining on either side, for a distance of from 20 to 40 feet, were destroyed. The loss on stock is of course almost total, and is estimated by Mr. Miller at $8,000, and the damage to buildings at $2,000. There is no insurance. Mr. Miller, in his attempts to check the flames, had his face scorched and both hands badly burned.

A judgment creditor has filed a bill for a receiver for the business of M. F. Gallagher, the Wabash Ave. florist. The *Herald* of April 21 prints the following: "A bill for a receiver to take possession of the business of Michael F. Gallagher, the florist, and the Gallagher Floral Company, has been filed in the circuit court by Thomas Kelly. Kelly is a creditor on a judgment for $856, recovered June 26, '93, by Clara Catherwood, the judgment being subsequently purchased by Kelly, who had guaranteed Gallagher's note. The bill alleges that Mr. Gallagher has assigned portions of his property in Hyde Park for the purpose of defrauding his creditors to Mary Gallagher, his wife, and John Schubert, both of whom are made co-defendants. The defendant, Gallagher, obtained the concession for the sale of cut flowers and plants at the World's Fair, and May 22, 1893, organized the Gallagher Floral Company, with a capital stock of $20,000. Into this corporation, the bill states, he merged his entire business and this concession in payment of its capital

stock. Kelly avers this was done for the sole purpose of delaying creditors in recovering judgments. It is stated that $10,000 of the stock was subscribed for nominally by Mrs. Gallagher, but in reality as a secret trust for her husband. For these reasons the court is asked to appoint a receiver, that all creditors may be satisfied."

Among recent visitors were K. J. Kuyk, Hillegom, Holland; N. T. Raulino, representing E. Kruyff, Sassenheim, Holland; J. B. Van der Schoot, Hillegom, Holland.

The news of the sudden death of Myron A. Hunt was received with universal sorrow in this city. As is well known, Mr. Hunt was for many years a prominent member of the trade here, and was highly esteemed by all. The Florists' Club, of which Mr. Hunt was an honorary member, sent a suitable floral arrangement to the funeral, as an expression of its sentiments towards one always held in highest regard by its members.

Philadelphia.

The April meeting of the Pennsylvania Horticultural Society held last Tuesday evening was most interesting to friends of the society who are interested in seeing the hall rebuilt. If the present plans are carried out and everything seems to be propitious, the new building will soon be under way. A number of wealthy gentlemen stand ready as soon as the trustees acceept their proposition to advance $100,000, and this with some $30,000 the trustees have in hand and some $40,000 or $50,000 to be raised from among the members of the society in $50 bonds, will place this time honored society among the best endowed institutions of its kind in the world. The borrowed money is to be no lien on the property, only the earnings after expenses are paid being called on to pay 3 per cent. interest and 2 per cent. a year into a sinking fund to gradually retire the bonds. The trustees have been offered close upon $300,000 for the ground and some of them think it best to sell and invest this money, but the attorney for the society, Mr. Price, a very high legal authority, says no, the deed of trust directs that when the Society vacates the property it shall revert to the heirs, and although Messrs. Schaffer, who would inherit, have given them permission to sell, it might place the property in jeapordy and his advice was to hold on and not sell if they could avoid it. Acting on his opinion and the feeling of a majority of the members that a fine building and little revenue would be more advantageous than simply a revenue from a fund invested and practically no hall or place that the society could call its own the members directed, by resolution passed unanimously, that it was their desire that the trustees accept the offer of $100,000 and also directed them to cooperate with this committee of gentlemen and adopt plans looking to the erection of the building as soon as possible.

It is estimated that the property when finished will be worth $500,000. The main auditorium is to be as complete as modern ingenuity can make it, while above this is to be a grand dancing hall, with retiring rooms, also a first-class kitchen. The lighting is to be done by electricity from a plant on the premises. As the meeting progressed one could almost see the hall rising Phœnix-like from its ashes. Robert Craig said at a small adjourned meeting later, when some one wondered how it was that the gentlemen with the hundred thousand would agree to lend this large amount without security, that they were all right, they could see that such a building as they proposed to erect would easily pay 3 per cent. on $200,000. The society furnishes the site, worth $300,000 for the use of the building when they needed it and while for a few years there might not be much revenue for the society they would come out all right in the end. "We have voted to-night," said he, "for poverty and glory, but as the society is self sustaining now, without any revenue from the hall, with this fine building and its prospective earnings the future looks very bright."

On the president's desk was a vase of Helen Keller, fine blooms, and a plant in flower of Cypripedium lævigatum, a very unique and curious looking variety, both exhibited by Edwin Lonsdale.

All the boxes, baskets and wagon extensions of the growers are now called into use daily to transport the stock now coming in. Everything is plenty save Brunners, which are off crop and nearly done for a little while. Beauties, particularly short stemmed ones, are very plentiful and are now the cream of the fakirs stock; very good flowers are offered on almost any street corner at four for a quarter, and sometimes it is six. Very good roses have been sold for from 25 to 50 cents per 100. Anything is taken rather than carry the stock home.

The wholesale prices to the stores for choice large teas is from $4 to $6 per 100, smaller class $2 to $3. Best Beauties $2 to $3 per dozen; best hybrids $3 to $4 per dozen; carnations $1.50 for good stock, $2 to $3 for the fancies; sweet peas $1.50 to $2.50 per 100.

The Wanamaker store is going into rose bushes. Their advertisement says: "Roses at 15 to 20 cents each, that are usually sold by florists for $1 to $1.50." The kind they offer is the dormant imported stock. They don't seem to have made much of a success of their cut flower department, as little is heard of it from customers.

Planting out season is now here and bedding plants are to be seen in large quantities among the growers who make a specialty of this kind of stock. K.

Boston.

The retailers are unanimous in pronouncing the present to be a very unsatisfactory month, and by no means up to the average for April. The prevailing prices of flowers have not been a true index to the state of trade, for a long spell of weather both cold and dark curtailed production and prices held up better than the demand would warrant. During the past week warm spring weather has prevailed and the effect has been felt already by the roses and violets. Prices on the former have become demoralized and the latter have suddenly grown small and poor, a sure indication that the end of the violet for this season is close at hand.

The conditions which produce this result on the Marie Louise have a contrary effect on the English or Cape violet, which is just beginning now to come in in quantity, and the Marie Louise looks pretty tired along side of the splendid deep purple of these flowers. But their season is a short one and a few weeks will finish them up, also. Trailing arbutus is to be seen everywhere and its abundance and popularity have not a little to do with the stagnation noticed in other lines. The carnation alone seems to hold its ground and up to date shows no sign of weakening, good Daybreaks, Buttercups, etc., going briskly all the way from three to five dollars per hundred, according to quality, while ordinary sorts seldom run under two dollars per hundred. Marguerites and primroses seem to enjoy especial favor this spring for street wear.

Patriots' Day, April 19, was observed with great enthusiasm throughout the state. In no instance probably was the occasion more uproariously celebrated than at "The Breakers," Ed. Hatch's cottage by the sea at Scituate. There have been some good times in the past at this famous retreat but this one threw all the rest into the shade. The company was the same galaxy which has often on similar occasion done justice to Mr. Hatch's hospitality. It was too early for corn and cucumbers, but clams and lobsters are always ripe and appetites always in bloom at Scituate. It was a great combination; Hatch, surf, Norton, clams, Hoitt, eloquence, Welch, patriotism, Ewell, harmonica, Cox, High-low-Jack, Annie Laurie and various other personages and ingredients too numerous to mention, including C. H. Joosten from New York, who from all appearances enjoyed to the utmost his initiation into the mysteries and the glories of Old Colony life.

The spring plant auctions are fully under way; McCarthy and Hatch have both had sales of roses, clematises and other dormant stock, and satisfactory prices were obtained all round.

C. J. Dawson, of the Bussey Institution, has exhibited cut blooms and plants of Cypripedium spectabile on several occasions lately and they have been much admired. This most beautiful of native orchids is very abundant in some sections and can be bought in quantity at low prices. It is forced with but little trouble and would pay well if grown for the market.

Sweet peas are selling well here, George Cartwright has a bench of Blanche Ferry 160 feet long and eight feet high from which he is cutting a large quantity but they all go.

Unless there should be extensive backing-out between now and next August Boston will send the biggest delegation on record to the Atlantic City meeting of the S. A. F.

Washington.

Trade has been fair in the cut flower line during the last week, while the plant trade has been unusually good for so early in the season. The market florists report trade excellent since Easter, and prices have kept up above that of former years. Trade in plants bids fair to exceed former years and the boys must have had an inkling to that effect, as the majority have made ample preparations to meet the demands.

Roses are exceptionally good and in profusion. Clark Bros. are cutting the finest La France that have come to our market in years. The rose houses of Gude Bros. at Anacostia, D. C., are a pleasure to behold. Their stock is fine and healthy, and a mass of buds; these houses which have only been erected about nine months have yielded a wonderful quantity of fine bloom during the entire winter. They are cutting thousands of most perfect buds daily. Their La France, Perles, Meteors, Brides, and Beauties are worth a drive to see.

Strauss & Co. are producing some of the finest Kaiserins ever put upon this market. They seem to have struck the key-note in the cultivation of this excellent rose, as they did with the Wootton, for I

have never seen either do as well in any other establishment. Its keeping qualities are ahead of most any others. Their houses are like a field of bloom. They are also cutting excellent sweet peas, in great quantity. They made a happy strike with this popular flower this season by having them unusually early.

Carnations are scarce and poor. Other flowers are plentiful.

At the funeral of Hon. J. Z. Vance, the late senior senator from N. C., which took place in the senate chamber last Monday there was entire new departure in the decorations of the chamber. The old employees, some of whom have been in the employ of the Senate for thirty years or more, say they never saw the chamber so profusely decorated with plants. In the alcove at the back of the Vice-President was a fine specimen of Areca lutescens. In either corner of the chamber to the right and left of the Vice-President was a large group of palms reaching from the floor to the galleries. Palms, rubbers and pandanus were arranged all around the chamber in niches formed by the columns to support the galleries. This was the work of Strauss & Co. To the right of the Vice-President stood a fine specimen of Araucaria Mulleri, while to his left was a fine Araucaria Cookii. Each of these plants were about 12 feet high; they added both grace and richness to the entire decorations. The araucarias were from the Botanic Garden. I am inclined to think that this new departure will be used as a precedent and that for all funerals from the Senate hereafter the chamber will be similarly decorated.

At the head, foot, and either side of the casket were arranged eight specimen araucarias, as they were the nearest things to be had to represent the deceased's native state. This was done at the request of the family. There was a scarcity of set pieces. On the casket, which was placed in the space immediately in front of the Vice-President's seat, was a very large and handsome wreath of Bride roses, tied with wide purple ribbon; resting carelessly on this was a bunch of Beauties loosely tied, and a basket of mixed flowers from the Vice-President. A pair of sago palm leaves forming a cross, another pair of sago leaves forming a St. Andrew's cross, had resting upon them a handsome bunch composed of cattleyas, vandas and asparagus, which looked very rich upon the fine cloth covering of the casket; this was from the Joint Committee on Library. A bunch of Harrisii tied with ribbon, and a bunch of callas, constituted the floral offerings with the exception of a broken column about 5 feet high composed of galax leaves. This rested on a base about 3 feet square which was filled with adiantum studded with fine Kaiserin and Mermet roses. Encircling this column about ⅔ the way up was a handsome wreath of Kaiserins and La France buds tied with a bow of broad pink ribbon. This was ordered by the Senate and was placed at the left of the Vice-President on the desk of the Secretary. It was a most excellent and artistic piece of work, arranged by Mr. Wm. Crawford, of C. Strauss & Co. REYNOLDS.

St. Louis.

The early part of the past week has been marked by the worst glut of the season, good stock even being hard to dispose of. It only lasted for a few days however, and the market at the end of the week was much easier.

Spring appears to have come to stay and planting out has commenced again. This is particularly true of the cemeteries, where considerable work is being done.

It is with extreme sadness that we learn of the death of our esteemed fellow craftsman, Mr. Myron A. Hunt, and expressions of condolence and sympathy are heard on all sides upon the announcement being made. R. F. T.

Buffalo.

The event of the week just passed which has overshadowed all others, was the opening of Joseph H. Rebstock's new store on Main street. No money or pains has been spared to make this store a most complete and elegant affair in all respects. Some of the leading features which your correspondent noticed on his visit during the first day of the "opening" were as follows (But if the proprietor thinks I have got some of it wrong, it is his own fault, for what with bewitching music, lovely ladies and other "sparkling" attractions, it was hard to keep one's reason, much less memory): Down the center of the store was a row of medium sized palms, which led the visitors down one side to the conservatory in rear of the store. The conservatory was very gay with everything of the season. Round the entire wall was a row of well grown longiflorum lilies, but raised up 7 or 8 feet. The benches were filled with flowering plants, hyacinths, boxes of tulips, hydrangeas, heaths, cytisus, roses in pots, etc. In the center was a group of tall specimen palms bordered by smaller but choice plants. The center plants were cycas, dracænas, pandanus, latanias, standard bays, Araucaria excelsa and others several of them 10 feet high. Following the procession and returning through the store you passed the office, from which issued the aforesaid music. In every nook and corner were magnificent vases of flowers of every sort in season. Of course roses were most prominent. A good deal of laurel and asparagus was used to festoon here and there but it was not over done in that respect. There are mirrors on all sides, bottom, top and sides. The front window, which is a grand size, was for the occasion simply but most effectively arranged. It was occupied by 200 good plants of Adiantum cunatum, in the center of which was a bowl of American Beauties four or five feet across. Thousands visited the store during the two days and everyone received a flower according to his or her desire. On asking Joe how he was pleased he said he never did such a *business* and never saw so little cash; as he insisted on selling nothing for two days he could not expect a different result. At a certain hour there happened to meet a dozen or so of the craft and after a good survey of the fine store they felt so low spirited that they rushed in a body to drown their misery in a game of bowls and its concomitants.

We don't have fakirs yet on the street and I hope never will, but we have spring flowers with us and they are selling them on the market at such a price that it will knock the bottom out of that sort of business in the stores. Flowers of all kinds are very plentiful.

Business must be called rather quiet for this season. Not as many large society events as there should be. There is talk now of getting the florist bowling team together. St. Louis was the first convention at which Buffalo was not represented by a bowling team. It surely can raise one for Atlantic City. There is great young blood here now, and they pile up wonderful scores, but you know how unreliable these colts are when they get before a crowd. We should most likely depend on the old veterans whose stiff joints readily yield to lubrication and the exhilerating company of other vets.

W. S.

Toronto.

Roses are cheaper now than ever before in this city and the fine weather has brought them out in great quantities. They sell well at the prices obtained but it is pretty safe to say that the consumer is getting the best of the bargain just now.

The Gardeners and Florists' Association held its regular monthly meeting on Tuesday last, which was exceptionally well attended for this time of year when everyone is busy preparing for the spring rush. The meeting was considerably enlivened by discussions and explanations concerning judges and judging at former and future shows, Mr. F. G. Foster of Hamilton having come up on purpose to take part.

A paper entitled "Pruning Ornamental Shrubs" was read by Mr. Geo. Vair, which elicited many commendatory remarks and much discussion. The citizens of Toronto sadly need education on this subject, and Mr. Vair said that his paper might as well have been called "How to leave ornamental shrubs alone." Mr. Vair's essay was gotten up at very short notice and a great deal of it was not written, so that I regret that the copy which was handed to the secretary is hardly in a fit state for publication, but I hope to get Mr. Vair to revise it shortly. I however enclose a few remarks on the subject [See another page.—ED.] written by a member who was unable to be present, which probably may be applicable to other cities as well as this. Both Mr. Vair and Mr. Foster said that the ornamental shrubs in Washington, especially at the Smithsonian Institute, were treated better than they had seen anywhere else.

E.

Ottawa, Canada.

Trade for the last two weeks has been exceptionally good for this season of the year, and the supply of roses and other flowers, carnations and violets excepted, has been equal to the demand. There has been a great demand for violets here this season. Sessional "dinners and dances ye know" have been numerous, and the beautiful spring weather has helped the buttonhole and corsage trade considerable. We escaped the blizzard that Toronto and other towns have been favored with; although we are far north we are seldom treated to hurricanes or extreme drouth. Last season we had abundance of rain while most places were suffering. As we have more electricity, both light and power, than most places of the size that may have something to do with the rain.

Harry Parks has purchased some lots in the center of town and has started to build. He gives up his present houses in the fall.

C. Scrim has been having quite a hunt for a dead rat lately. Shelves, drawers and boxes were turned out, and the refrigerator, where the smell was intense, was examined, ice chamber and all; but the rat could not be found till a lady popped her nose into a box of allium. He has cancelled his order for allium bulbs. Once is enough.

The crop of bulb drummers has been larger than usual this season; they all have the best of course. ZERO.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—In or around greenhouses, by young man, 26; 8 years' experience; references. THOS. RODHAM, Scranton, Pa.

SITUATION WANTED—By young man of 2 years, experience as florist; references. Address NELS PETERSON, 79 S. Jefferson St., Chicago.

SITUATION WANTED—By gardener, single; experienced in commercial or private place; sober, willing; good references. J. N., Red Bank, N. J.

SITUATION WANTED—By experienced rose, carnation and chrysanthemum grower; single; best of reference. FLORIST, Fort Shilacoom, Wash.

SITUATION WANTED—By gardener and florist; cut flowers, graperies, vegetables and mushrooms; commercial or private; age 32, married. E, care American Florist, Chicago.

SITUATION WANTED—By first-class florist with life experience; age 32; able to take full charge of commercial or private place. Address N M, care American Florist, Chicago.

SITUATION WANTED—As foreman for commercial place; well up in roses and general plants; 18 years' experience; can handle men; good references. Address W S, care American Florist.

SITUATION WANTED—As foreman, manager or head gardener in private place; 20 years' experience; married; good references. Address LAKE GENEVA FLORAL CO., Lake Geneva, Wis.

SITUATION WANTED—By a young man; is German, single; would like a job in greenhouses in city; good references of two florists, the last in city. Address F O, care American Florist, Chicago,

SITUATION WANTED—By gardener, commercial or private; 12 years' experience, steady, sober; willing to do anything wished done; age 25; Protestant, English, FISHER, box 178, Kenosha, Wis.

SITUATION WANTED—By first-class designer, also willing to make himself useful in greenhouse if necessary; single man of 30; first-class references. Will work for moderate salary if steady place. Address C W, care American Florist.

SITUATION WANTED—By a first-class florist, single German, with 15 years' experience, good propagator and cut flower grower; also good design worker, as foreman on commercial or private place. Can give good references. Address K. C., 1206 Vine St., Cincinnati, O.

SITUATION WANTED—As manager or foreman; thoroughly versed in growing cut flowers and plants; has lived in some of the leading places in England and this country; over 20 years' experience; good references. When applying give particulars. FLORIST, 129 N. Clark St., Chicago.

SITUATION WANTED—By a practical Scandinavian, 18 years' experience, married, as a working fireman or gardener in commercial or private place; thoroughly understands all branches of the trade; highest references; state wages; west preferred. Address PRACTICAL, care American Florist.

SITUATION WANTED—By nurseryman's son, English, with life experience; formerly with B. S. Williams, London; married, one child; roses and carnations my specialty. Have had five years' experience at steam and hot water engineering. Would undertake any size place or go shares and build up a plant. Address SPECIALIST, care Am. Florist.

WANTED—Hardy ground myrtle, about 10 barrels; state price per barrel. GUS KNOCH, Woodmere, Mich.

WANTED—Wm. R. Conover's address, lately at Mendenhall's, Minneapolis; supposed to be in Chicago. FITZSIMMONS, Lansing, Mich.

WANTED—An outside gardener, one who understands both outside and inside work; middle age, sober and industrious. MRS. A. SCUFF, Menominee, Mich.

WANTED—To purchase florist establishment adapted to cut flower growing for the market; a location in eastern New England preferred. Address A, care Eastern Office American Florist, 67 Bromfield St., Boston.

WANTED—Florist, experienced in growing cut flowers (roses in particular) and forcing of bulbous stock; state wages expected, with references, whether married or single. Address WM. HALBROOKS, 924 E. Oregon St., Evansville, Ind.

WANTED—A competent florist to take entire charge of a small commercial place 20 miles from St. Paul; must be a good designer and a good all around man. Good wages and a permanent place to the right man. FRANK BERRY, Stillwater, Minnesota.

WANTED—In a well established florists' business an active partner with capital of $3,000-$5,000. An immense extent of country with rapidly increasing population and very little competition. No such chance on the continent. Address A. BOWERMAN, box 956, Winnipeg, Manitoba.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man. WILFRED A. BROTHERTON, Rochester, Mich.

REMOVAL NOTICE.

This is to inform our friends and patrons that on and after May 1st, '94, we will be located at

61 & 63 WABASH AVENUE, 2nd Floor, CHICAGO,

where we will be pleased to see you. We are now as were before prepared to fill all orders with good stock and prompt shipment. Come and visit our new quarters when you are in the city.

We remain yours,

NILES CENTER FLORAL CO.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about $75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE OR TO LET—A valuable florist business. For particulars address JACOB MENDEL, Lock Box 59, Nyack, N. Y.

FOR SALE—Established and paying florist business; only one in one of the best counties in Indiana. Address CENTRAL, care American Florist.

FOR SALE—One Kroeschell hot water boiler 4x12; 4 years in use. Also about 4000 feet 4-inch pipe. ART FLORAL CO., 3911 Cottage Grove Ave., Chicago.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE OR TO LET—A suitable place for a florist or market gardener, consisting of 3¼ acres good land, cottage of eight rooms with dry cellar, also barn. Greenhouse 80x14, heated by Weathered hot water apparatus all in good order. Finest market in the world for disposing of all produce, both in summer and winter. The property is situated quite close to the city of Newport, R. I. For terms, prices, etc., address A. PRESCOTT BAKER, Bellevue Ave., Newport, R. I.

FOR SALE.

At a bargain, the best retail florist place (1 store and greenhouses) in the city and doing a good business; poor health reason for selling. For further particulars address H. F. HALLE, 548 W. Madison St., Chicago.

ROSE GROWER WANTED

WANTED—A thoroughly competent man to take a position as foreman in a first-class establishment within a few hundred miles of Chicago. Must be a man who can grow roses and carnations of the very best quality. Must be temperate, thoroughly experienced and reliable. The best of references required from reliable growers. This will be a good and permanent position to a good man. Any such who would make a change within the next few months will do well to correspond with us. Address

"LA FRANCE," care Am. Florist.

Splendid Business Opportunity

The widow of the late Robert J. Purvis, being unable to continue the business, will sell at a low price the stock of 35,000 plants, tools, etc., used in the business of her late husband. Everything in first-class condition. The six greenhouses can be leased for a term of years at a low rate. A splendid opportunity for an energetic young man with some capital. Address

MRS. R. J. PURVIS,
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R. H. JAMES, Proprietor, St. Georges, Bermuda.



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" " " 3-inch, 6.00
" De Lesseps, " 4-inch, 10 00
PALMS, well-grown Kentia Fosteriana, 5-inch pots, 30 to 36 inches high, $15.00 per dozen.

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Orders for less than one-half inch space not accepted.

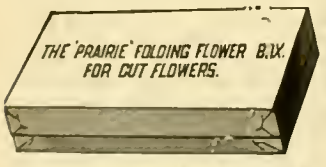
Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THE HAMPDEN COUNTY (Mass.) Horticultural Society issues an attractive annual, of which we recently received a copy. It contains premium lists of their shows, to be held during the current year, and other matters of interest.

A DOZEN WOOTTON roses from C. R. Gallup, Denver, Colo., were recently sent us as a sample of what can be done with this rose in Colorado. They were very large and deeply colored flowers, and the wood was as stout as that of the Beauty; they reflected great credit on the grower.

REPLYING to "A Reader," the proper place for the thermometer in a greenhouse is on a level with the eyes when standing. It is true that the temperature may vary in different positions in the same house but the temperatures mentioned in cultural notes by correspondents in the FLORIST are taken from thermometers that are hung at a height of from five to six feet from the ground. Any other position would be so unusual that probably none thought it necessary to specify the height at which they hung their thermometers.



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Roses, Perle, Cusin, Watteville	1.00@ 4.00
" Meteor, Mermet, Bride	1.00@ 4.00
" Bridesmaid	2.00@ 5.00
" Testout	2.00@ 5.00
" Beauty	2.00@20.00
" Hybrids	2.00@20.00
" Jacqs	5.00@20.00
Carnations	1 00@ 3.00
Harrisil	2.00@ 4.00
Violets	.50@ .75
Valley	1.00@ 2.00
Daffodils, Tulips	2.00@ 3.00
Sweet peas	1.50
Mignonette	2.00@ 4.00
Marguerites	.50@ .75
Hyacinths	1.00
Smilax	10.00@15.00
Asparagus	35.00@50.00
Adiantum	1.00
Lilacs, per bunch	.50@1.00

BOSTON. April 21.	
Roses, Niphetos, Gontier	2.00@ 4.00
" Perle, Sunset	3.00@ 4.00
" Bride, Mermet	4.00@ 6.00
" Jacqs	6.00@15.00
" Brunner	10.00@40.00
Carnations	2.00@ 4.00
Violets	50@ .75
Harrisil	6 00@ 8.00
Lily of the valley, daffodils	3.00@ 4 00
Astilbe	1.00@ 2.00
Mignonette	2.00@ 4.00
Sweet peas	2.00
Adiantum	1.00
Smilax	10.00@12.00
Asparagus	50.00
Primroses, per bunch	12c

PHILADELPHIA. April 21.	
Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watteville, Hoste	2.00@ 3.00
" Bride, Mermet, La France	4.00@ 6.00
" Kaiserin, Bridesmaid, Testout	5.00@ 8.00
" Belle, Beauty	10.00@25.00
" Laings	12.50@25.00
" Brunner	25.00@40.00
" Jacqs	10.00@15.00
Carnations, H. Keller	6.00
" Ophelia, Sweetbrier	3.00
" Edna Craig	3.00
" good ordinary	1.25@ 1.50
Violets	.75@ 1.00
Mignonette	1.00@ 1.50
Asparagus	50.00@75.00
Harrisil lilies	4.00@ 6.00
Sweet peas	1.50@ 2.50
Cattleyas	40.00
Orchids	15.00@40.00
Smilax	15.00@20.00

CHICAGO. April 24.	
Roses, Beauty	18.00@25.00
" Hybrids	8.00@18.00
" Jacqs	5.00@ 8.00
" Meteor	2.50@ 3.00
" Mermet, Bride, La France per 1000	15.00@20.00
Carnations	1.00@ 1.25
" fancy	2.00@ 3.00
Harrisil	4.00
Romans	1.00@ 1.50
Valley	2.00@ 3.00
Violets	.75@ 1.00
Mignonette	1.50@ 2.00
Sweet peas	1.25@ 1.50

BUFFALO. April 23.	
Roses, Beauties	10.00@25.00
" Jacqs, Brunners	8.00@12.50
" Mermet, Bride	5.00@ 6.00
" Meteor	4.00@ 8.00
" Gontier, Perle Hoste	4.00@ 5.00
" Cusin	4.00@ 5.00
Callas, Harrisil	8.00@10.00
Carnations	1.50
" Daybreak and Wm. Scott	1.50@ 2.00
" short	.75@ 1.00
Valley	3.00
Violets	.50@ .75
Tulips, Daffodils	2.00@ 3.00
Romans	2.00
Sweet peas	1 00@1.50
Mignonette	1 00@ 2.00
Smilax	15.00@20.00
Adiantum	1.50
Asparagus	50.00

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For 1894

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BURNS & RAYNOR'S

SPECIALTIES:

American Beauty,
Bride,
Bridesmaid,
Meteor,
Sweet Peas.

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49 West 28th St., NEW YORK.

FOR

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PURE WHITE LILAC

Seasonable, Choice, Appropriate.

ALSO ALL OTHER DESIRABLE STOCK.

CAN SUPPLY IN ANY QUANTITY DESIRED.

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WHOLESALE

FLORIST,

32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

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THEO. ROEHRS,

WHOLESALE

FLORIST,

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NEW YORK CITY.

Established 1879.

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Wholesale Florists,

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BRANCH: Cut Flower Exchange, 408 E. 34th Street.

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WHOLESALE FLORIST.

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Wholesale Florists,

NO. 2 BEACON STREET,

Near Tremont St., BOSTON, MASS.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, at Toronto, Ont.

As a Seed Grower Sees It.

The present way in which a large lot of the seed business is done is so very expensive, rent, help, catalogues, advertising, etc., the cost of the seed is but a small item.

The income lasts 90 to 100 days, the balance of the year is outgo. In the great desire to over-reach one another there is considerable cutting in prices. The result is the expensive way in which the business is done, prices are too low and not enough made. The next step is to cut down all expenses to the finest edge and squeeze the life blood out of every one concerned, including the cost of seeds—the vital part.

The question is, will the growers be cut to death, or maintain fair living prices and compel the dealers to adopt better and more business-like methods, keep prices up to a living figure and stocks up to standard? *No one profits by low priced seeds.* Which course is best for the million? Too much European in the present style, I say.

AN OLD AMERICAN SEED GROWER.

W. ATLEE BURPEE is on a trip to California, via Florida and New Orleans; he will return in time for the seedsmen's annual convention at Toronto in June.

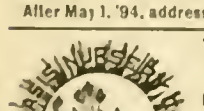
A SECOND EDITION of Spraying Crops, by Prof. C. M. Weed of the New Hampshire Agricultural College, has just been issued. It treats of both fungicides and insecticides, and the best methods of combatting both. (Orange Judd Co., New York).

THE West Virginia Horticultural Society was organized at a meeting of horticulturists at Morgantown, W. Va., April 5. Officers were elected as follows: Adolph Hiehle, the florist of Parkersburg, Pres.; J. W. Garvin, Wheeling, Vice-Pres.; Prof. F. W. M. Rane, of the Experiment Station, Sec'y and Treas. Over 20 members were enrolled, representing several counties. Mr. Hiehle read a paper on floriculture and means of increasing the interest in horticulture in the state. A constitution was adopted.

Hulsebosch Brothers,
OVERVEEN, near Haarlem, HOLLAND.
Bulbs AND Plants

We are now prepared to quote lowest possible prices for next July, August and September delivery.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.
After May 1, '94, address will be ENGLEWOOD, N. J.



Tuberous Begonias.
GRIFFIN'S STRAIN.
Medal awarded World's Fair.
We are headquarters for the above, the finest strain in the world. Send for illustrated descriptive catalogue with copyright engravings. It tells you all about them.
OASIS NURSERY CO.,
Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.
Mention American Florist.

Established 1830.
R. VAN DER SCHOOT & SON,
HILLEGOM, - HOLLAND,
Largest Growers of
HYACINTHS, TULIPS, NARCISSUS,
SPIRAEA, LILIES OF THE VALLEY, ETC.
HEADQUARTERS FOR HIGH GRADE FORCING BULBS.
Wholesale Importers should write us for Prices.
OUR NEW TRADE LIST NOW READY.

VAN ZONNEVELD BROTHERS & CO.
SASSENHEIM, - HOLLAND,
—GROWERS OF—
HYACINTHS, TULIPS, NARCISSUS, ETC.
ASK FOR CATALOGUE.

P. VOS, of the firm
P. VOS & CO., Bulb Growers,
SASSENHEIM, near Haarlem, HOLLAND,
Is at present making a tour of the United States, and all communications directed to me at MEYERS' HOTEL, HOBOKEN, N. J., will have prompt and careful attention.

JOHN SPEELMAN OF
C. J. SPEELMAN & SONS,
WHOLESALE BULB GROWERS,
(45 ACRES IN CULTIVATION.) SASSENHEIM, HOLLAND,
Begs to advise his American customers that he will call upon them at an early date and asks that orders be reserved until he has called. I shall be in America till May 15, and up to that date correspondence addressed to JOHN SPEELMAN, care of KNAUTH, NACHOD & KUHNE, 5 South William Street, NEW YORK, will have prompt attention.

CYCLAMEN SEEDS,
European strain.
LILIES OF THE VALLEY,
Berlin and Hamburg Pips.
FLOWER SEEDS for Fall delivery.
METAL WREATHS.
All at Import Prices.
SCHILLER & CO.,
Commission Seed Merchants,
122 E. 23rd Street, NEW YORK.
Please make us offer of all kinds of Seeds and Bulbs, we will sell it for you.

SEEDS!
PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

PITCHER & MANDA,
WHOLESALE
Nurserymen, Seedsmen and Florists,
SHORT HILLS, N. J.

HERRMANN'S SEED STORE
413 East 34th Street,
Near Long Island Ferry, NEW YORK.
Complete Stock of
ASTER SEEDS
At Reasonable Prices
PRICE LIST FREE ON APPLICATION.

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FREESIA REF. ALBA
500,000 No. 1 Bulbs.
Guaranteed free from any mixture of the yellow variety.
Delivery after 15th May.
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SHELLY BAY, BERMUDA.



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FREESIAS, LIL. LONGIFLORUM, CALLAS, GEM CALLAS, AMARYLLIS, CALIFORNIA BULBS, Brodiaea, Calochortus, Fritillarias, TREE FERN STEMS, and Australian Palm Seeds. Send for our NEW PRICE LIST.
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Tuberoses. . .
DWARF PEARL and TALL DOUBLE.
FINE, SOUND BULBS.
1st Size.....$1.00 per 100; $8.00 per 1000
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Done with expert ability for Florists, Nurserymen, Seedsmen. Write to
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. . . HARRISBURG, PA.

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2 1-2 Cent ROSES.

200,000 from 2½-inch pots, at $25 per 1000; $3 per 100.

STRICTLY OUR SELECTION. Cash with Order.

50,000 from 4-inch pots, at $60 per 1000; $7 per 100.

VARIETIES IN STOCK.

HYBRIDS—M. Baumann, Black Prince, Alfred Colomb, F. De Lesseps, De Graw, Dufferin, Edinburgh, Holmes, Giant of Battles, Lefebvre, Lyonnaise, Prince Arthur, E. Verdier, E. Fuerst.

HYBRID TEAS—Weilshott, Meteor, Pink Rover, La France, White La France, Albany, Wootton.

TEAS—Bravy, Gontier, Golden Gate, Mermet, Brides, Passot, President, Rubens, Anna Ollivier, Perle, Sunset, Schwarz, Watteville, Hoste, Salviati, Safrano, Waban.

CLIMBERS—Baltimore Belle, Seven Sisters, Tennessee Belle, Gustave Gossard, Marechal Niel, Solfaterre, Devoniensis, Lamarque, Perle, Richardson.

Also Queen's Scarlet, Hermosa, Soupert, Chatelard, Pernet, Kuster, Mignonette and other varieties.

Quality of stock guaranteed. Personal inspection invited. Send for quotation on your own selection.

THE NATIONAL PLANT CO.,
Dayton, Ohio.

Forcing Roses.

Prime stock in No. 1 condition, out of 2½-in. pots, December propagation, at following prices:

	100	1000
AMERICAN BEAUTIES	$6.00	$50.00
WHITE LA FRANCE	4.00	35 00
METEOR	3 50	30.00
BRIDES	3.50	30.00
MERMETS	3.00	25 00
PERLES	4.00	35.00
PAPA GONTIER	4.00	35.00
NIPHETOS	3.50	30 00
NIELS	4 00	35.00
SOUPERTS	4.00	35.00
GEN'L JACQS	5.00	45.00

For more than a 1000, write for special quotations. Also all kinds of bedding stuff way down for cash.

J. B. HEISS, Dayton, Ohio.

5,000 Jack Rose Plants,

ON THEIR OWN ROOTS.

Well branched, 2½ to 3 feet high, $10 per 100. Sample of 8 for $1.00.

JORDAN FLORAL CO.
706 Olive Street, ST. LOUIS, MO.

FOR SALE.

Choice lot of young rose plants out of 2½ and 4-inch pots. Mermets, Brides, La France, Perles and **Bridesmaids.** Apply

GORDON PARK GREENHOUSES,
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Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

200 Niphetos Roses, 20 inches high, $10 00 per 100.
Bouvardias, rooted cuttings, 5 vars. $1.50 "
Blue Lobelias, for Baskets, ready to bloom, $2.00 per 100.
Verbenas, $2.50 per 100. Extra fine colors.
Write for list and low prices.

McCREA & COLE, Battle Creek, Mich.

Sunset Seed and Plant Co.

(SHERWOOD HALL NURSERY CO.)

No. 427-9 SANSOME STREET,

SAN FRANCISCO, CALIFORNIA.

HEADQUARTERS FOR

CALIFORNIA-GROWN SWEET PEAS

And other Flower Seeds.

PACIFIC COAST TREE SEEDS

And Native Bulbs.

JAPANESE LILY BULBS

And other Oriental Specialties.

ONION SEED, PEAS, BEANS, ETC.

Write for special contract prices.

YOUNG ROSES.

We offer a limited quantity of the following varieties:

Am. Beauties, in 2 and 3-inch pots.
Perles in 2-inch pots.
Mermets in 2-inch pots.
La France in 2-inch pots.
Albany in 2-inch pots.

BASSETT & WASHBURN, Hinsdale, Ills.

Mention American Florist.

ROSES.

	Per 100.
Am. Beauties,	$6 00
Testout, -	6 00
Meteors, - -	3 50

ROSES.

	Per 100.
Brides, - -	$3 50
La France, -	3 50
Mermets, -	3 50

Special discount on our Beauties on orders of 500 or over.

REINBERG BROS., 51 Wabash Ave., Chicago.

ROSES, all the very best both new and old.

CHRYSANTHEMUMS, the cream of all the long list now offered, in extra fine plants now ready for immediate delivery.

JOHN N. MAY, Summit, New Jersey.

Brides, Bridesmaids, Perles, Meteors, Hostes, From 2, 3 and 4-in. pots.

ROSES

Cusins, Beauties, Niphetos, Testouts, La France, Mermets,

Address for quotations T. W. STEMMLER, VILLA LORRAINE ROSERIES, Madison, N. J.

Sole Agents for U. S. for Chas. Macintosh & Co., England, Inventors of Vulcanized India Rubber. Extra strong greenhouse hose to withstand high pressure. ¾-in., 3-ply, 15c. per foot in 60 feet lengths.

Cincinnati.

The regular monthly meeting of the Cincinnati Florists Society was held at the society's rooms in the Floral Market, Prest. Critchell presiding. Minutes of last meeting read and approved; three new members were added to the ranks. The advisability of holding a floral exhibition and chrysanthemum show was discussed at length, and finally tabled, with the decision that Cincinnati should have a show in 1895.

The florists all seemed to be having a nice trade in the market Saturday night, the flower market being crowded. It is certainly a grand sight to stand on the stairs leading to the society's rooms, and see the display as it shows up in said market. Every visitor has the same remark. "It is grand, the florists of Cincinnati surely ought to be happy."

Mr. N. Ohmer was a visitor with us Saturday. Mr. Ohmer is one of the foremost horticulturists in Ohio, having introduced many new varieties of fruits, including the Gregg raspberry and the Ohmer blackberry. He has now retired from active business, being seventy-one years old, but with more vitality than half the young men, he with his wife has just returned from a trip to the midwinter fair in California. He says the exhibition is a grand one but should not be compared for a moment with the late World's Fair.

Our flower stores are all quite busy this week with various decorations. Julius Baer helped to celebrate a golden wedding Monday by furnishing a large number of Perle roses for same. Chas. J. Jones, Jr., of East Walnut Hill has a very large wedding decoration for Wednesday, including church and house. Mr. Jones is building a combination store and greenhouse for the sale of cut flowers, palms, etc.

H. L. Sunderbruch has branched out as a grower, and is now running the McFadden plant, formerly managed by the late John Rose.

L. H. Kyrk & Co., who started in business last fall, are doing a nice business, and we trust making money, Lou as well as his sister being well known to the trade, and popular.

Mr. Albert McCullough is spending a few weeks at Hot Springs, Va., taking a much needed rest.

From general appearances the florists will have a good trade on Decoration Day, as nearly all the outdoor flowers were killed by frost several weeks ago. Seed trade very good. E. G. GILLETT.



New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from $1 order).

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Engraver for Florists,
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TRY DREER'S
GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.
Mention American Florist

20,000
ARAUCARIAS
ARAUCARIA EXCELSA, 6 to 8-inch plants, $35.00 PER 100; $6.00 PER DOZ.
ARAUCARIA IMBRICATA, small plants, $8.00 PER 100; $1.50 PER DOZ.
The above delivered by Mail or Express at prices quoted.

New Crop Phœnix Canariensis, $2.50 per 1000 Seeds
" Washingtonia filifera .75 per lb.
" Chamærops excelsa .50 per lb.
" Grevillea robusta 5.00 per lb. 50c oz.

COX SEED AND PLANT CO.
411, 413 & 415 Sansome Street,
SAN FRANCISCO, CAL.

Siebrecht & Wadley,
ROSE HILL NURSERIES,
NEW ROCHELLE, N. Y.
Palms,
ORCHIDS,
Roses,
and New Plants.
FRESH DRACAENA CANES NOW READY.

ORCHIDS OUR SPECIALTY.
The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.
SANDER, St. Albans, England.
Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich St., New York City.

The Boskoop, Holland, Nursery Association
OFFERS AT SPECIAL PRICES
Roses, Azaleas, Rhododendrons, Clematis, Etc.
Address C. H. JOOSTEN, Agent.
3 Coenties Slip, NEW YORK.

LATANIAS.
For Sale Cheap, 100 very choice Latania borbonica in 10 and 12 inch pots with 8, 10 and 12 leaves, at from $6 to $10 each.
H. F. HALLE,
518 W. Madison Street, CHICAGO.

CARNATIONS,
CHRYSANTHEMUMS,
HYDRANGEAS,
MARIE LOUISE VIOLETS.
Send for Trade List.
SAMUEL J. BUNTING,
Elmwood Ave. and 58th St. PHILADELPHIA, PA.

Hardy Water Lilies.

		Per Doz.
NYMPHÆA Odorata, large rhizomes		$1.00
" Gigantea, "		1.00
" Minor, "		1.00
" Rosea, "		2.00
" Rosacea, "		1.00
" Tuberosa, "		1.00

GEORGE FARRANT, Salem, N. C.
Mention American Florist

FOR SALE.
Fine Blooming CACTI, 14 for $1.00, or $5.00 per barrel, my selection
MRS. MAUD M. BRIGGS, El Paso Greenhouses,
EL PASO, TEXAS.

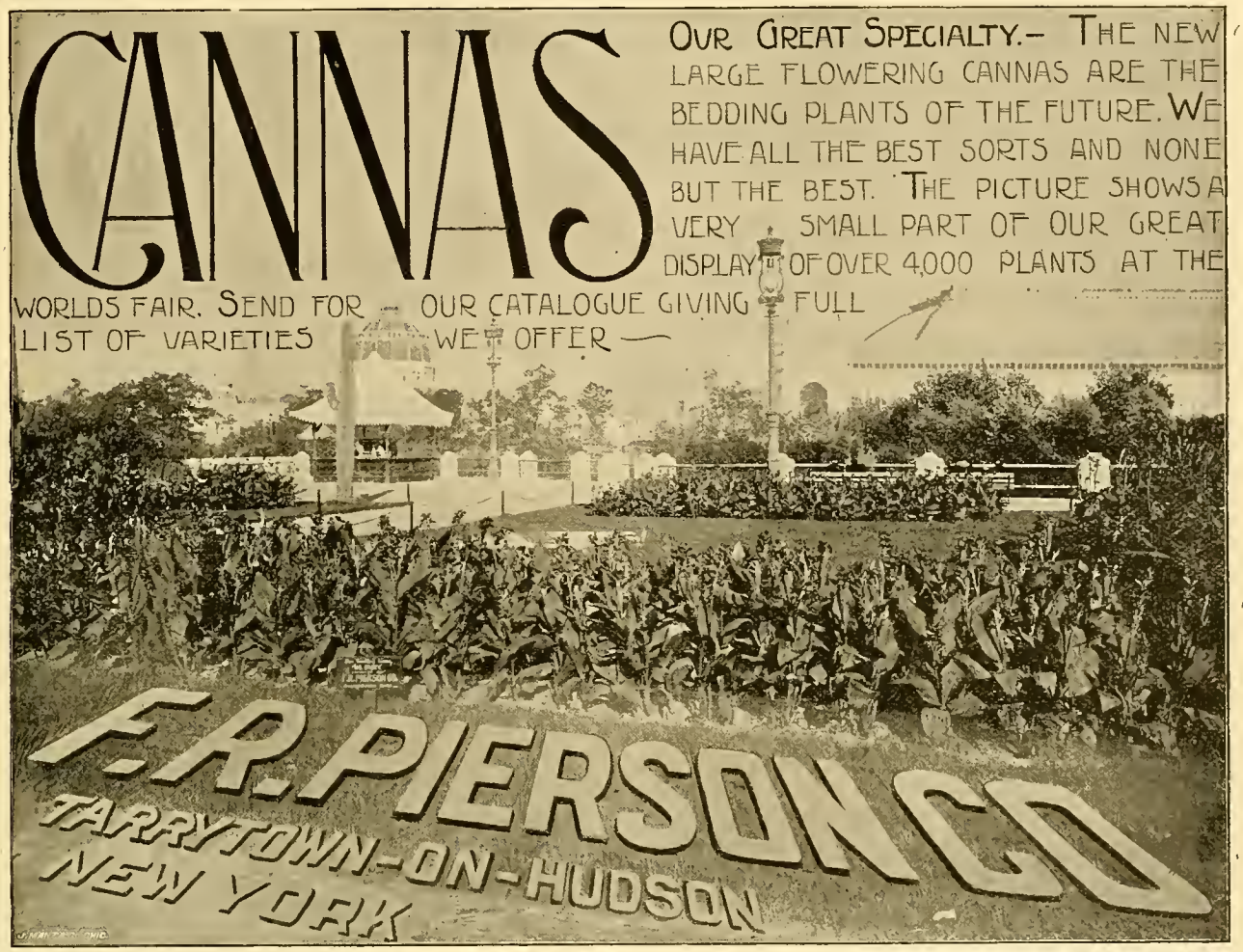
50,000
Dwarf French
CANNAS.
We offer the above quantity in strong, well established plants from 3 and 4 inch pots. This stock must not be confounded with dormant pieces or freshly divided plants out of benches.
We list here only the principal varieties of which we have a large supply. For a general list refer to our Spring Trade List which describes over seventy-five varieties, including all the desirable novelties of the season, including the grand New German variety, Konigin Charlotte:

	Per 100
Madame Crozy	$10.00
Alphonse Bouvier	10.00
Paul Marquant	10.00
Capt. P. de Suzzoni	15.00
Florence Vaughan	25.00
Charles Henderson	25.00
Paul Bruant	20.00
Admiral Gervais	15.00
Comtesse de L'Estoile	15.00
Chas. Dippe	15.00
Cronstadt	15 00
Denil de St. Grevy	15.00
Explorateur Crampbel	15.00
Gustav Senneholz (true) distinct	15.00
Maurice Mussy	15.00
Martin Cahuzac	15.00
Marquise Arthur de L'Aigle	10.00
Nardy Pere	15 00
Professor Gerard	15.00
Secretary Stewart	15 00
Stadtgartner Senneholz	15 00
Antoine Crozy	8.00
Admiral Courbet	8.00
Antoine Chantin	8.00
Baronne de Sandrans	10.00
Baronne de Renowardy	8 00
Comte Horace de Choiseuil	10.00
Duchess de Montenard	12.00
E. Chevreul	12.00
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Edward Michel	12.00
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Geoffroy St. Hilaire	8.00
J. Thomayer	20.00
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Mr. Cleveland	15.00
Mlle. Liabaud	12.00
Nelly Bowden	8.00
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Perfection	15.00
Souvenir de Jeanne Charreton	8.00
Statuaire Fulconis	8.00
Trocadero	8.00
Ventura	8.00
Viticulteur Gaillard	8.00
Kaiser Wilhelm	8.00

We will furnish one each of the above varieties, 46 plants for $5.50.
Among Crozy's New Cannas of this season Paul Sigrist is undoubtedly the most distinct and striking novelty. We are the only American house offering this variety to the trade this season. In general habit similar to Mme. Crozy, but of a bright crimson color nearly as rich as Alphonse Bouvier with a very broad golden yellow border. Stock limited, $2.50 each.
HENRY A. DREER,
PHILADELPHIA, PA.
Mention American Florist.

Pansies.
Fine plants of best strain, just coming into bloom, $15.00 per 1000.
J. T. ANTHONY,
2205 Michigan Ave., CHICAGO.

EXTRA STRONG, WELL ROOTED
MARIE LOUISE VIOLETS.
Now Ready. $5.00 per 1000; 60c. per 100.
MISS P. A. BAKER, Media, Pa.



SPECIAL OFFER to the TRADE

50,000 New Yellow Coleus

GOLDEN CROWN, the most hardy, strongest growing, highest colored yellow to date, 2-inch, well grown, $4 per 100; $35 per 1000; 250 at 1000 rates throughout.
10,000 in 12 other standard leading sorts, plants $1.50; rooted 75 cts. per 100.
10,000 Snow Crest Daisies, $3 per 100; $25 per 1000.
30,000 Mam. Verbenas, progressive type, none better.
5,000 of them Climaxers the Peerless crimson bedder.
10,000 seedlings from our *XX* and *XXX* progressive seed will give the most splendid new kinds, all perfectly clean and healthy, 3-inch, strong, fine, in bud, $2.50; flats $1.50 per 100, seedlings same rate; special rates per 1000.
5,000 Vgt. Vincas, extra fine, 3-inch $3; flats $1.50; rooted $1 per 100.
5,000 Giant Scabiosa Snowball, per 100 $1.50; seed, 25c. for large trade packet.
10,000 Gibson's sweet scented hybrid pansies, flats $1; frame $2 per 100; seed ¼ oz. 50c., ¼ oz. $1, ½ oz. $1.60.
5,000 Gem Feverfew, 5,000 Golden Marguerites, 5,000 Dwf. Lobelias, 5,000 Golden Feather and C. Gymnocarpa, the last two seedlings small pkts. $1.50, rooted cuttings 75c. per 100.
Double Petunias, Dreer's new '93 set and the Queen the best all round double white, rooted, named, labeled, $2 per 100.
Mexican Primrose, three novelties, named, rooted $1 per 100.
30,000 Eulalia Zebrina and Japonica, potting size $2 50 per 100.
5,000 Torenia Fournieri, seed pan 50 cts., from flats $1 per 100.

Lots of other good things. Write for what you want. Premium offer for every $5 order: We will put in free 6 Giant Neruna Verbena and 1 Golden Straud Coleus; doubled on every $10 order, and 1 Dak. Primrose, 1 pkt. Double Petunia and 1 pkt. Scabiosa snowball when desired. Price list free. Address, cash with order please.

J. C. GIBSON, Woodbury, N. J.

Mention American Florist.

APPLE GERANIUM.

Strong plants from 2½-inch pots at $5.00 per hundred.

H. KADEN, Gainesville, Texas.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

ROOTED CUTTINGS

COLEUS, 10 kinds by mail.....60c per 100
" 12 kinds by express..$4.00 per 1000
ALTERNANTHERA P. Major and Aurea Nana, by mail.....50c per 100

CASH WITH ORDER.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

MATCHLESS IN BEAUTY

Unsurpassed in Fragrance.

Commencing May 15, I can furnish by mail, postage prepaid, **The Celebrated Grandiflora Cape Jasmine Buds, at $1.00 per 100, or by Express at $7.50 per 1000.** This truly great flower, when carefully packed, will remain in a dormant state for ten days, and, upon being placed in water, will at once open in splendor. Please send in your orders at once, as supply is limited.

ADDRESS **C. H. JONES,**
No. 819 Market Street, GALVESTON, TEXAS.
Mention American Florist.

PANSIES.

Imperial German, mixed, very large plants; all blooming. $2.00 per 100; $15.00 per 1000.

VERBENAS.

Hybrid mixed. 3-inch pots, very strong plants. $2.50 per 100. Cash with order.

PETER BROWN, Florist,
LANCASTER, PA.
When writing mention the AMERICAN FLORIST.

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ROOTED CUTTINGS, in 30 to 40 varieties, (our selection), at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.

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NOW ON HAND IN NEW YORK:

CLEMATIS in sorts, 3 years.....per 100 $25.00
SPIRÆA JAPONICA..... " 4.00
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Lilium speciosum, Pæonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9.00: Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

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Rhododendrons.

Hardiest kinds only; budded.

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109 South 7th St., Philadelphia, Penna.

Germantown, Pa.

The first spring exhibition of the Germantown Horticultural Society was held in the hall of the Young Men's Christian Association, Main and Price streets, on Wednesday, April 4. This show was the first held under the new plan proposed by Mr. Joseph Meehan and adopted last winter; namely, to hold two large shows yearly; a spring show at Easter and a chrysanthemum show in the fall, and to give up the small monthly exhibitions. Unfortunately, the committee in charge, while carrying out the letter of this plan, were not willing to risk carrying out its spirit. They decided not to put the society under any expense but to save all funds possible for next fall. Hence instead of the usual cash premiums or medals, certificates of merit were offered as prizes. This fact, together with the date of the show, which was fixed for ten days after, instead of two weeks before Easter, was largely responsible for the lack of exhibits and the meagre attendance; gardeners are not a mercenary lot; they will do much for love of their calling, but they cannot be expected to leave their work just in the middle of the spring rush to exhibit plants and flowers which represent much time and money, without the least return. Still the show cannot be called a failure. A lot of fine flowering and decorative plants were shown. To Mr. Albert Woltemate, who is the most public spirited florist in Germantown, the society is indebted for a fine collection of palms and azaleas. The other exhibitors were Messrs. Henry Diehl, who showed some fine hydrangeas, Matthew Broeken, Michael Sammon, Morrison and Holmes.

Now that Easter is a thing of the past a few notes may be of interest. Besides the regular stores, several new ones were opened by enterprising growers to dispose of their stock, and these, with the curbstone venders and hucksters, made our streets look unusually bright and pretty. Quite a number of lilies and a few other blooming plants were left unsold on Saturday night but all cut flowers were cleared up and such a large number of plants that the growers generally were well satisfied. Easter, 1894, showed an improvement on its predecessors, thanks largely to the fine weather.

Mr. Walter R. Cliffe has left his father's place and formed a partnership with a capitalist in West Philadelphia. The new firm expect to erect eight houses at once and will grow roses, carnations and other cut flowers for the wholesale market. Mr. Cliffe has done so well in the past that his friends can only wish him equal success in the future.

A rather amusing incident occurred in West Philadelphia last week. Mr. J. W. Colflesh was visited at the same time by representatives of Messrs. Pierson, Vaughan and Ely, all anxious to secure his orders. This was rather embarrassing. Mr. Colflesh didn't want to split his order and left it to his visitors to settle the matter. The genial Mr. Burt Eddy, representing Mr. Vaughan, proposed deciding by straws; the man getting the longest straw to stay and talk to the customer. Curiously enough, the lots fell in the order in which the travelers had arrived. Mr. Pierson's man drew the long straw and remained, while Mr. Eddy, and Mr. Reed of Ely's, who were second and third comers respectively, sought new fields of labor. J. W. Y.

CHRYSANTHEMUM NIVEUS.

Now ready, from 2-inch Pots, strong plants, price, $1.50 per dozen; $10.00 per hundred

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Alternantheras, Versicolor, Rosea nana, Aurea nana and P. Major	$.50
Coleus of sorts, mixed	.50
" best new and old, named	1.00

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Alternantheras, P. major, Aurea nana, Tricolor (Rosea nana), Versicolor	2.50
Plumbago, Capensis and Alba	4.00
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Perennial Phlox, fine assorted	$6.00 and 4.00
Achillea "The Pearl"	4.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't	$3.00 and 4.00
Abutilons, assorted	4.00
Echeveria Extensa globosa, 3 to 6 inches across, per dozen, $1.00.	
Mexican Primrose	3.00
Lady Washington Geranium	6.00
Achyranthus, assorted	3.00
Coleus, assorted	$2.00 and 3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Antherieum picturatum	per dozen, 75c.
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00
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Dahlias, named, our selection	5.00
French Cannas, named, our selection, dry roots	5.00
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" potted	10.00
Fancy Leaf Caladium, fine mixed	6.00
" " named	8.00

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FUCHSIAS, leading sorts, rooted cuttings $1.00 per 100.
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AGERATUM, blue and white, 75c. per 100; $5 per 1000.

Cash must in all cases accompany the order.

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Argentea Guttata, Vernon, Dewdrop, M. De Lesseps, and other	Per 100
Flowering varieties	$3 00
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COLEUS, in variety, per 1000, $20.00	2 50
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Happy Thought, Mt. of Snow and Bronze	3 00
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Chrysanthemums, leading varieties, per 1000, $20.00	2 50
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Rooted Cuttings, leading varieties, healthy, per 1000, $10 00	1 25
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Fine assortment, clean cuttings, at 75c. per 100 or $6.00 per 1000.

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UNCLE JOHN, white; **THE STUART**, scarlet;
E. A. WOOD, pink variegated;
GOLDFINCH, yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

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Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.
Send for price list.

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THESE NINE **CARNATIONS** FROM SOIL.
Free from Disease and First-Class in every way.

- Uncle John
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- Wm. Scott
- Edna Craig
- Albertini
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- Portia

Note, before you order elsewhere, that we offer the above and twenty other good varieties of Carnations, well established in soil, ready for planting out or potting up—delivery in April—at the price of cuttings from sand, and guarantee satisfaction. Send for list.

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Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
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Rooted cuttings, $16.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

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PRICE FOR WELL ROOTED CUTTINGS:

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THE COTTAGE GARDENS, QUEENS, LONG ISLAND.

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Will have ready about May 20th rooted cuttings as follows:

10,000 WILLIAM SCOTT.
10,000 DIAZ ALBERTINI.
5,000 McGOWAN.
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Rooted Cuttings or Plants.

New French Cannas; Chrys. Geo. S. Conover; Geranium Silver Jewel; Anemone Whirlwind; Pink Her Majesty; Fuchsia Trailing Queen; and many other fine Novelties.

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WE are now filling promptly all orders FOR Ada Byron and Nicholson CARNATIONS.

They are the cream of the year.
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For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

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The ADELAIDE KRESKEN Carnation

Rooted Cuttings, price $2.00 per dozen; $10 00 per 100; $45.00 per 500; $80.00 per 1000. Cash must accompany all orders.

Took 8 Prizes and Certificates.

Address *PETER HERB, Mt. Healthy, Ohio.*

Prices Lower Than Ever.

Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to $5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

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CARNATIONS Portia, American Flag, Mrs. Fisher, Robert Craig, etc., 75c. per 100; $6.00 per 1000.
COLEUS, assorted, 60c. per 100; $5.00 per 1000.
ALTERNANTHERA, 50c. per 100; $4.00 per 1000.
This is the last call. Everything must be cleaned up, as I want the room.

JOHN J. CONNELLY, Bryn Mawr, Pa.

Pansies in bloom.

First-class plants from cold frames. Send $2.00 for sample hundred.

W. J. ENGLE, Box 211, Dayton, Ohio.

St. Paul, Minn.

The fore part of the week trade was brisk but the latter part except for funeral work, proved dull and uneventful. On Monday night, April 9th, occurred *the* society event of the season, the Elks' Benefit at the Metropolitan opera house, and flowers were in great demand. The decorations were among the finest ever seen in the city. Green wreathing hung in festoons from the balcony and gallery railings, depended from the boxes and entwined the pillars. Groups of palms, lilies, and hydrangeas flanked the front of the stage on either side, while tall Harrisii in full bloom nodded from the boxes and intensified the beauty of the scene. In the lobby were groups of palms and flowering plants appropriately placed, while the landings on the balcony stairs were embellished in like manner. The finest floral attraction of the evening however was the Elk's Head, the emblem of the order, placed in a conspicuous position at the entrance. This was most satisfactorily constructed by Mrs. Garges, and with its rich and striking colors, contrasting finely with their surroundings, and its faithful portrayal of nature, caught and riveted the attention of all. The antlers were made of red carnations, the head and ears of white ones, while the mouth, eyes and nostrils were delineated in red. The neck consisted of white roses, carnations and small flowers so arranged as to give the wrinkled effect seen in the noble animal in life. A background of green gave a proper setting to the whole and almost imbued it with life.

During the play "An Unequal Match," presented by Miss Marie Wainwright and company, the beauty of each scene was enhanced and emphasized by different arrangements of plants and flowers, in beds and vases. At the close of the first act Miss Wainwright was presented with a bouquet of five dozen Am. Beauties tastefully arranged and tied with ribbon. Each actress was also presented during the evening with a bunch of two dozen roses tied with ribbon. The majority of the audience, which was composed of the clite, were in full evening dress and beauty, flowers and gaiety were seen in profusion on every hand. The decorations were made under the personal supervision of L. L. May. The arrangement of the plants and flowers on the stage for the different acts was very artistically performed by Joseph Taylor of the same firm and assistants.

The latter part of the week has been damp and cloudy and everything has worn a mournful appearance in contrast with the brightness and gaiety of the fore part. Stock however is looking well, despite the absence of sunshine.

Prices of cut flowers remain firm with a good supply on hand. Violets are nearly gone though we notice Chris Hansen is still cutting some fine ones. Beauties are now the finest of the season with a brisk demand for them. They retail readily at $3 per doz. Some Harrisii are still seen but the demand for them is light.

Quite a number of Holland drummers have appeared and report good sales except in tulips.

There is a brisk demand for potted plants in bloom and anything with a flower sells readily.

Our genial Alderman Warren, proprietor of Warrendale greenhouses, was defeated for renominntion to the city council, but Brother Warren takes his defeat with his usual *sang froid* and murmurs "after all it might not have been."

FELIX.

CANNA Florence Vaughan, Per 100 $25.00.
ALLA True Little Gem, Per 100 $8.50.
LOTHILDE Soupert Rose, Per 100, 2½ inch, $4 00.

H. P. ROSES, ETC.

H. P. Roses, 2 year old (budded), at $10.00 per 100; $90.00 per 1000, of the following varieties: Madam G. Luizet, Mabel Morrison, Prince C. de Rohan, Ulrich Brunner, Mrs. John Laing, Magna Charta, Giant des Batailles, Duke of Edinburgh.
GEN'L JACQ. (on own roots), 12-18 inches, fine stock, at $8.00 per 100.
Prairie Queen and Baltimore Belle, at $8.00 per 100.
Tree Roses, fine tops, H. P. sorts, at $8.00 dozen.
Raspberries—Shaffers Colossal, at $1.25 per hundred.
" Gregg, at $1.00 per hundred.
Gooseberries—Industry, 2 year old, at $9.00 per hundred; 1 year old, at $5.50.
Hydrangeas Paniculata Grd., 24-30 inches, at $9.00 per hundred.
Hydrangeas Paniculata Grd., 18-24 inches, at $6.00 per hundred.
Cycas Revoluta stems, from 3 to 100 pounds each, at 17½ per pound.

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NO RUST OR MILDEW.
Packed light, and salisfaction guaranleed. Send for circular. . . .
We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.
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WE ARE IN WANT OF
the following plants. Must be strong stock from 2½-inch pots:

1000 ABUTILON. Yellow.
250 " White.
250 " Pink.
250 BEGONIA. Paul Bruant.
250 " Marguerite.
250 " Saundersonii.
250 " Diadema.
250 " Argentea Guttata.
250 " Metallica.
1000 BLACK CALLA (Bulbs).
250 FARFUGIUM Grande.
200 MOSS ROSES. White.
200 " " Pink.
200 " " Red.
250 ROSES. Baltimore Belle.
250 " Seven Sisters.
250 " Caroline Goodrich.
1000 H. P. ROSES. All varieties.

Quote prices. Address
L. L. MAY & CO., St. Paul, Minn.

10,000 GERANIUMS of the standard bedding sorts, from 3 and 4-inch pots.
10,000 CARNATIONS, from 2½-inch pots. Also 5,000 Rooted Cuttings ready now.
30,000 ALTERNANTHERA, ready April 1st, of all the standard sorts.
700 strings of SMILAX, of which the average length is 7 feet.
Write for prices, as I will sell at a sacrifice to make room for other stuff.
MRS. GEO. R. FRAVELL, Marion, Ind.
PROP. MARION AND MAPLE HEIGHTS GREENHOUSES.

Marie Louise VIOLETS
Rooted Cuttings, $5.00 per 1000.
ANCHORAGE ROSE CO.,
ANCHORAGE KY.

ROOTED CUTTINGS
CHRYSANTHEMUMS
Write for list and prices. Prices to suit the times.
STRONG SMILAX, from 2½-inch pots, $3.00 per 100; $25.00 per 1000.
PANSIES, from cold frame, first size, $25.00 per 1000; second size, $15.00 per 1000.
Address J. G. BURROW, Fishkill, N. Y.

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YOU OUGHT TO HAVE.
FUCHSIA LITTLE BEAUTY.—A Gem of the first water for florists and market gardeners; will produce triple the amount of flowers than any other sort, and a very early bloomer, single blue corolla; sells at first sight. Price $1.00 per 12; $7.00 per 100.
PETUNIA PINK BEAUTY, the best selling plant for any florist, color most exquisite rose, finely fringed and filled; grow a big house full of it and it will net you a quicker net profit than any other plant—$1.00 per 12; $7.00 per 100.
MARGUERITE CARNATION, finest strain for summer bloom; will give you flowers for 5 months outdoors in greatest abundance; $3.00 per 100. $25.00 per 1000.
CHRYSANTHEMUM THE QUEEN, the white Chrysanthemum for the million pot plant or cut flowers; largest flowers without too much care; $5.00 per 100; $15.00 per 1000.
OUR NEW ROSE AMERICAN PERFECTION.—This sport will produce twice the flowers than Mermet or Bridesmaid on strong erect stems, and flowers will last a week in perfect condition, a vivid rose; also the finest bedder among Teas. Try a hundred; you will not repent it. Only $6.00 per 100, $50.00 per 1000, from 2-inch pots.
Send a list of your wants. Address
NANZ & NEUNER, Louisville, Ky.
When writing mention the AMERICAN FLORIST.

Pansies, 50,000.
The Jennings strain of large flowering and fancy pansies now ready. Fine large blooming plants, all colors, $2.00 per 100; $15.00 per 1000. Medium size plants, for May blooming, $5.00 per 1000 by Express; 60c. per 100 by mail.
Pansy Seed, pure white $1 per pkt. of 2500 seeds.
Large yellow, dark eye, $1 " " "
Snowflake Daisies, fine plants, $2 per 100.
Extra fine strain of German Daisies, large and double, white, pink and red, mixed or separate, $2.00 per 100. Cash with order.
ADDRESS E. B. JENNINGS,
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Tree grown, three to eight branches, very fine stock, $12.00 to $25.00 per dozen.
PALMS, leading varieties at bottom prices.
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TRY MY
GERANIUMS at $2.00 per 100
IVYS 2.50 per 100
PANSY SEED, good strain, 12½c. per trade pkt.
I. N. MARSH, Plattsburg, O.

Baskets and Fern Dishes for Dinners, Decorations, Receptions, School Commencements, Bon Voyage, etc. purposes, in many pleasing styles, plain and fancy, of Wicker, Willow, natural, gilt or bronzed, Raffia, Celluloid, Silver and Gold Metal, etc., at high and low prices, all cheap for their cost; compare our Fall trade list.

Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

Immortelles, White and all colors, $2 75 the dozen, natural yellow, $2.00; Cape flowers, best, $1.00 the lb., second size, 60c. the lb.; Wheat Sheaves, Wire Designs, Wire, Foil, Picks, Wax Paper, and all other Florists Supplies quoted in our Illustrated Trade List, mailed free.

Metal Designs for Decoration Day in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.

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Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

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This preparation Is a sure destroyer ot the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

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CANNA MME. CROZY, started plants, $1 per doz.
CHRYSANTHEMUMS, nice young plants, including some of the newer varieties, my selection, $2.50 per 100.
FUCHSIAS, healthy vigorous young plants, from 2-inch pots. Splendid list of varieties, my selection, $2.50 per 100.
GERANIUMS, large assortment, my selection, $3.00 per 100.
CARNATION, entirely free from disease. One hundred in assorted colors, my selection for $2.50.
PANSIES, from finest seed to be had, $2.00 per 100.
BEGONIAS, fine assortment, 2-inch, my selection, $3.00 per 100.
ALYSSUM COMPACTUM, $2.00 per 100; strong, 2-in.
DUSTY MILLERS (Centaurea Gymnocarpa), $2.00 per 100 for strong 2-inch.
ENGLISH IVY, 2-inch, $3.00 per 100.
Any of the above plants 25 at the 100 rate.

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

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Unsurpassed Mammoths, 2½-inch pots	$3.00	$25.00
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LATANIA BORBONICA, from 5-inch pots, well grown, 24 to 30 inches high, 5 good leaves as large as the 6-inch plants sent out by any other firm.....$6.50 per dozen; $50 per hundred

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IT IS USED as a covering for cold pit sash; excellent for use in palm or fern houses; to grow strawberry plants, early vegetables, tobacco, etc., under. A most handy article as a protection against the direct rays of the sun.

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" " 4-inch, $9 00 per 100.
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Vinca var. 2½-inch, $2.00 per 100.

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Montreal.

We are enjoying remarkably fine weather here just now, in fact it is like summer; we have not had a drop of rain for over six weeks.

The retail florists all complain of poor business, flowers of all kinds being abundant. There are quite a few Harrisii lilies and spirea to be seen in the windows yet, for which there is little demand.

Mr. Harry Stocking, the popular ex-secretary of the G. and F. Club, has been laid up with a severe attack of scarlet fever, but is now convalescent.

Mr. John Kirkwood, the gardener at R. B. Angers' place for a number of years, has left there, and his place has been filled by Mr. W. Wilshire, late gardener to Sir John Abbott. The latter place, owing to the death of the proprietor, is being sold out. I hear the contents of the conservatories and greenhouses, including one of the choicest collections of orchids in the country, is to be sold at auction in the near future. BEAVER.

San Francisco.

Easter trade here was very good. Harrisii in big demand with short supply. Roses were very good as were carnations.

Owing to the terrible dry spell here the seed crops of California in some respects, are going to be very short. Sweet peas for instance will be very short. M. Lynch, Timothy Hopkins and C. C. Morse predict a big shortage in sweet pea seed this year. These three firms have enormous quantities of them planted, but without rain they cannot accomplish anything. The weather is very hot.

The Midwinter Fair does not seem to help the trade very much.

Carbone's nursery at Alameda was sold by the sheriff the other day.

Mrs. Holbrow, on Polk St., has sold out to Mann & Shaw and has gone on a trip to Europe.

Carbone & Monti sold out to Figone Pelicano & Co. who are doing well.

H. C. N.

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Are sold as follows: **Terms net cash with order.** If ordered shipped by freight add 50 cents cartage.

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2¾ "	1,000....	" 23 lbs.	.30	2.30
3 " ..	1,000. .	" 30 lbs . .	.35	2.80
3½ " .	1,000	" 45 lbs . .	.50	4 00
4 "	500.	" 76 lbs . .	.60	5 00
5 "	500	" 100 lbs . .	.80	8.3½
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Standard Pot Measure. Less quantities than full crates at 100 rates. For further detail see previous special advertisement.

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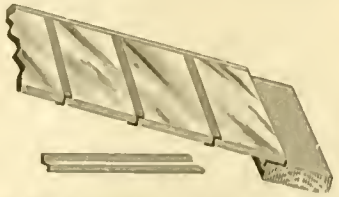
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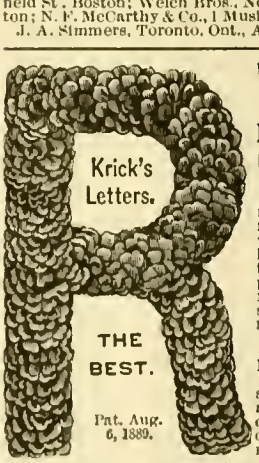


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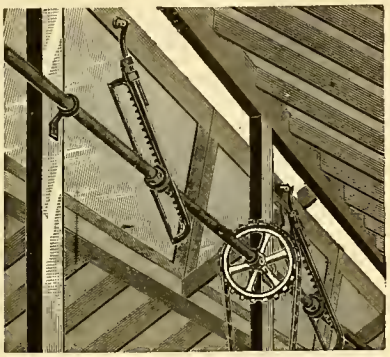
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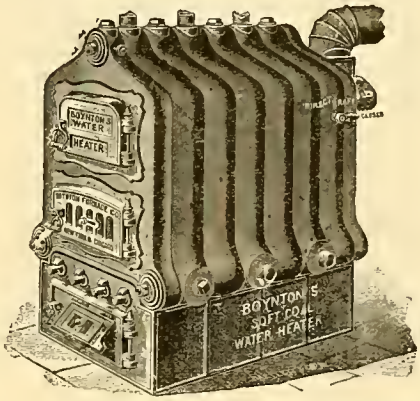
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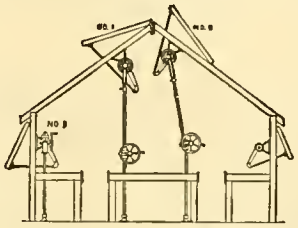
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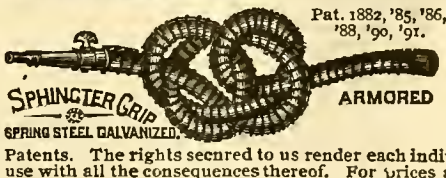
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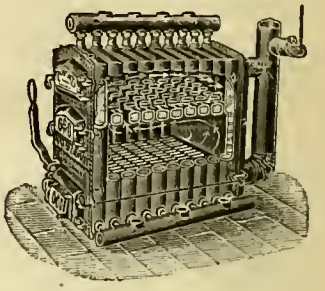
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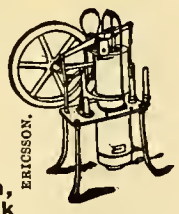
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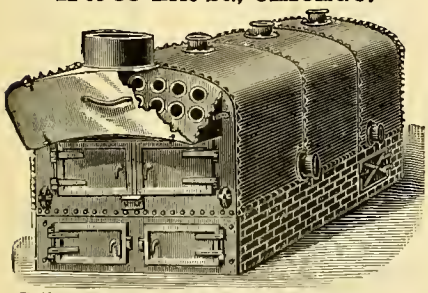
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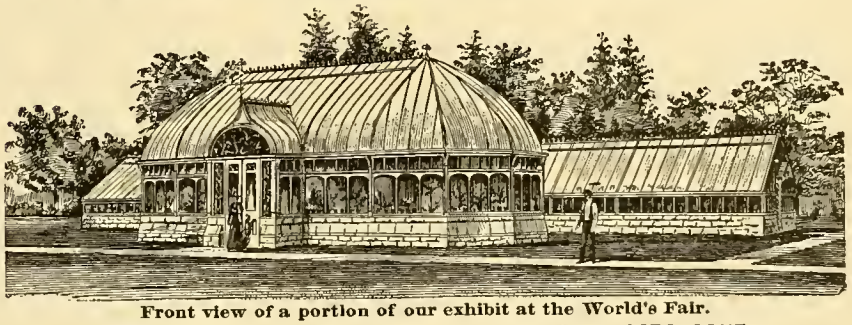
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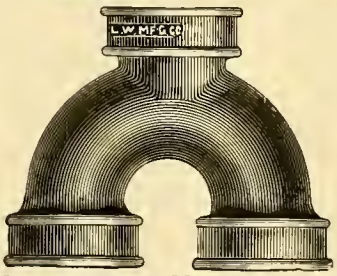
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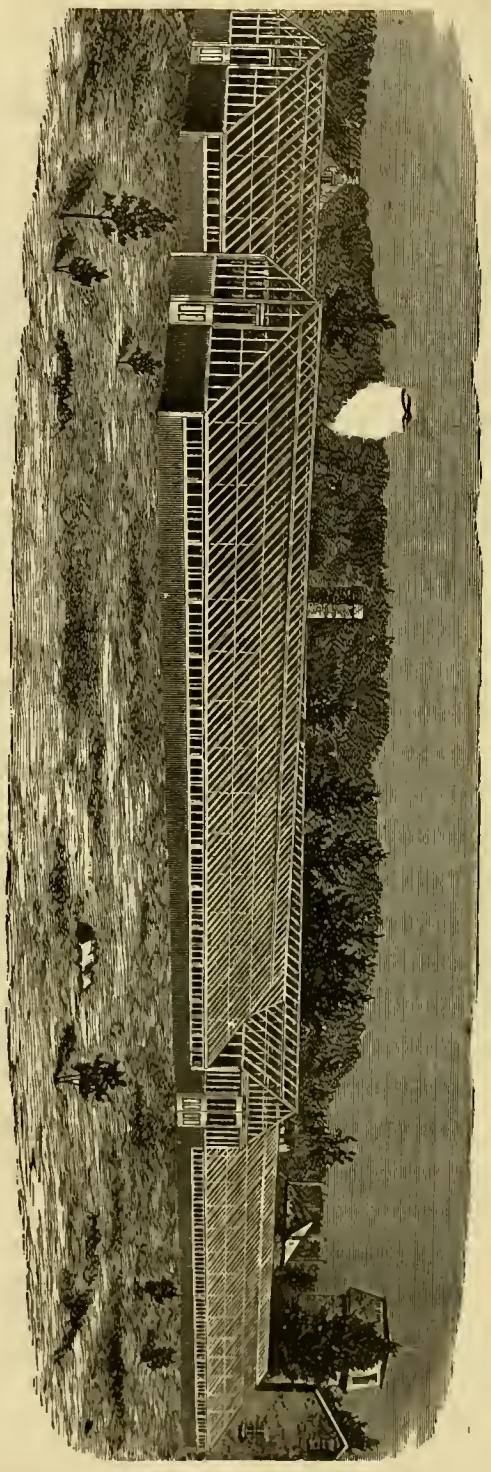
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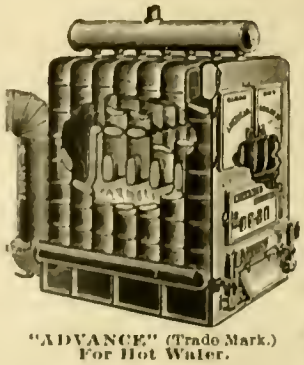
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Vol. IX. *CHICAGO AND NEW YORK, MAY 3, 1894.* *No. 309*

THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. Tenth annual meeting at Atlantic City, N. J., August, 1894.

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Funeral of the late Myron A. Hunt.

The earthly remains of Myron A. Hunt were laid to rest in Highland Lawn Cemetery, Terre Haute, Ind., last Thursday, April 26, with most impressive and appropriate ceremonies. In addition to his hosts of local friends and neighbors, and the florists of his own city, there were present from a distance the following friends in the trade: W. G. Bertermann, Anthony Wiegand and H. Rieman, Indianapolis; Fred Dorner, LaFayette, Ind.; E. G. Hill, Richmond, Ind.; J. M. Jordan and E. H. Michel, St. Louis; J. T. Anthony, J. C. Vaughan, P. J. Hauswirth, E. H. Hunt and wife, Miss S. Chandler, and G. L. Grant, Chicago; J. D. Carmody, Evansville, Ind.; J. S. Stuart, Anderson, Ind.; W. W. Coles, Kokomo, Ind.; R. R. Miller, Hinsdale, Ill.

The funeral services were held at the First Congregational Church, of which Mr. Hunt was a member, and were conducted by the Rev. Mr. Crum, pastor of the church, assisted by Mr. E. G. Hill, a close and intimate lifelong friend of our departed brother. The pall bearers included four members of the church and four friends in the trade as follows: John G. Heinl, Terre Haute; W. G. Bertermann, Indianapolis; Fred Dorner, LaFayette, and J. M. Jordan, St. Louis. The church was handsomely decorated with plants contributed jointly by John G. Heinl and his brother Lawrence Heinl, and on the platform were arranged among the plants the numerous floral tributes. Among the latter were a pillow, from the Society of Indiana Florists; a standing anchor, from the New York Florists' Club; a crescent wreath of roses, valley and cattleyas, from the Chicago Florists' Club; a wreath of camellia leaves, tied with purple ribbon, from the St. Louis Florists' Club; a handsome bunch of Uncle John carnations, arranged with Asparagus plumosus, from Mr. Fred Dorner, LaFayette, Ind.; a pair of cycas leaves bearing a crescent wreath of superb Bride and Bridesmaid roses, from E. Wienhoeber, Chicago; a crescent wreath, from John G. Heinl, Terre Haute; a cross, from Lawrence Heinl, Terre Haute; a pair of palm leaves, from the local Y. M. C. A.; a shield from the local Christian Endeavor Society, and others.

After the usual funeral ceremonies of the Congregational Church were concluded Mr. E. G. Hill delivered a very affecting address on the life of his and our dead friend. He said Mr. Hunt had entered the profession at a trying time in its history and had done much to assist in advancing it to its present dignity and standing. He quoted the well known remark of Canon Hole: "He who would have beautiful roses in his garden must have beautiful roses in his heart," and said "Myron A. Hunt had beautiful flowers—beautiful roses, in his heart and he nourished them with beautiful thoughts and an abiding love. He loved them next to his Creator and the wife of his bosom. I well remember the look of admiration and love on his kindly face as he showed me a flower of a beautiful seedling rose he had grown, saying: 'What a lovely thing it is! A gift to us from God, who vouchsafes to man so many beautiful things!' He loved everything in nature, which he accepted as visible manifestations of the goodness of the Creator to man. He was always an earnest supporter of the right and an opponent of the wrong. He was always found on the right side. No man can say that he ever received aught but evenhanded justice from Myron A. Hunt. And one of the most beautiful phases of his character was his tender love for her who had been his companion and helpmeet for more than a quarter of a century. The relations between this wedded pair were truly ideal. Let me read you the dedication of the useful and valuable book he recently contributed to the literature of the profession, 'How to grow cut flowers.' From this you can see the wealth of love for her that surged in his heart. It is as follows: 'To her who has walked by my side for nearly a quarter of a century, has tenderly cared for me in sickness, cheered me in days of adversity, and earned her full share of the rest that has come with the eventide of life, to my loved wife in this volume dedicated.' Every word came from his heart and we who know the intensity of his nature can understand what a shock to his reason was the announcement that this beloved wife was hopelessly insane—that while the body remained, the soul with which he had so long been in loving communion had fled to return no more. The cord that held both souls had broken, and his had gone to resume above the companionship so rudely rent here. The act that took the semblance of life from that clay was not the act of Myron A. Hunt but of the body from which the soul had already taken its flight."

Mr. Hill gave also a brief outline of the life of his friend, as covered in our announcement in last issue, and related various incidents illustrating his noble qualities of mind and heart. At times he was so deeply affected that he found difficulty in continuing and there were few dry eyes in the church when he concluded.

Pastor Crum also related numerous instances of Mr. Hunt's earnest religious feeling, his generosity and benevolence, and his active interest in all that would advance the cause of Christianity.

At the grave the ceremonies were brief and simple and on this beautiful spring day the mortal remains of Myron A. Hunt were placed in the bosom of mother earth in a lovely spot overlooking the broad valley of the Wabash. Peace to his ashes.

Mr. John G. Heinl generously took upon

himself the task of caring for the members of the profession from a distance who had been called to Terre Haute by the sad event. The visitors gathered at his store as they arrived and he had provided conveyance to the residence, which is some three miles from the centre of the city. In the evening all dined with him and enjoyed his hospitality and that of his charming wife and family until the time of departure of the various trains.

Mr. Hunt's affairs are left in an unfortunate condition. His will, made some time since, leaves everything to his wife and makes her executor of the instrument. As she is now insane she is of course incapable of acting. While the family have of course given these matters no thought as yet, it would seem that it will be necessary to ask the Probate Court to appoint a conservator for Mrs. Hunt and that he be given power to administer the estate. Of the seven children five are minors. The oldest son, who bears his father's given name, is 26 years of age (and not 20 as an error made it appear in last issue). He is married and is studying with a view to becoming an architect. He was unfortunately in Naples, Italy, at the time of his father's death and of course it was impossible for him to reach home in time for the funeral. The other two sons are aged 19 and 17 respectively.

The following from the Terre Haute *Gazette* of April 23 gives fuller details regarding the unfortunate event than we were able to secure in time for our last issue.

"The many friends of Mr. M. A. Hunt, who owns the rosary southeast of the city, will be greatly shocked to learn that, about 5 o'clock this morning, he shot himself through the heart, dying probably instantly. About five o'clock one of the men who works about the greenhouses heard a pistol shot and entering the room formerly occupied by Mr. Hunt as an office, found him lying dead with a bullet hole through his heart. He had no clothing on except an undershirt, a nightgown and a pair of slippers. The pistol, used by him for self defense in his journeys, was lying by his side and the left hand, which fired the fatal shot, was blackened with the burnt powder. Scarcely any blood was seen on the floor or on his garments, the hemorrhage having been internal. Mr. Hunt left his bed this morning while all his family were asleep and proceeded to his greenhouses which are possibly 300 yards east of his residence, without having been seen by any one.

"There is not the least doubt that Mr. Hunt was insane. Early in January he began to have violent pains in his head. While in Chicago on business about the middle of January his wife was telegraphed to go there as he was very sick. She found him in an almost unconscious condition and suffering from terrible pains in his head and several weeks passed before he was able to return home. In the meantime Mrs Hunt became insane, owing partly, doubtless, to her great anxiety for her husband. This greatly depressed him and he became gloomy and taciturn, declining, as a general thing, to receive calls from old acquaintances and friends who would have been glad to sympathize with him. He has for some months past given but little personal attention to his business, his sons and employes having looked after his affairs.

"During these months, though formerly a regular attendant at the Congregational church, he has been able to go but a few times. He has made mistakes in business and there have been increasing symptoms for several weeks that his mind was giving way under the terrible strain of his family troubles and his continued ill health. He has been able to sleep but a little for some weeks after two or three o'clock in the morning, when his dreadful headaches would commence, during the awful paroxysms of which he has seemed at times temporarily insane and the family have been carefully watching him for some time, fearing some such denouement. Yesterday he was free from pain and seemed comfortable and very happy. It is probable that early this morning his usual headache came on again, and during the attack he took his life.

"Some weeks ago Mrs Hunt was taken to Dr Fletcher's private asylum at Indianapolis. About ten days ago she was brought home again, her family thinking that the change might benefit her, but she rapidly grew worse and last Saturday the papers were made out and she was sent to the State Asylum in Indianapolis.

"Friends who drove out from the city early this morning, immediately on receipt of the dreadful news, say the most pathetic sight of their lives they witnessed in the greenhouse, where the body of this kind and gentle grey haired man lay surrounded by the almost frantic members of the family.

"No scrap of paper could be found except a tablet in the house on which Mr. Hunt was seen writing yesterday. There are four verses addressed to his wife, recalling the bright and happy days of their youth, expressing the hope that they might take no their old lives again here on earth and the belief that, if this is denied, they will meet in the life beyond. Few lines of deeper pathos have ever been written.

"In the greenhouse Mr. Hunt apparently wrote nothing this morning, but he took with him a locket containing something presented to him by his wife, also jewels which were the gift of the Christian Endeavor Society. He pushed his night shirt aside and fired directly over his heart.

"The family has the sympathy of the entire community. Mr. Hunt left a married daughter who lives in Boston, a married son, Mr. Myron Hunt, an architect who is studying in Europe, and three daughters and two sons who are still living at home. They are Misses Kittie, Fanny and Sarah and Messrs. George and Charles.

"Mr. Hunt had a very prosperous business and was in easy circumstances. He had recently purchased a beautiful site on the bluff near his present residence, which he had graded and planted with trees and was expecting to build upon soon. He was one of Terre Haute's very best citizens. He was generous to a fault and was one of the strongest supporters of the Congregational church and the Y. M. C. A., of which he was a member. His death is a public loss and he will long be remembered with affection."

It may be well to add here that the rumor circulated by a daily press dispatch to the effect that Mr. Hunt was in financial difficulties had absolutely no foundation whatever. The accounts of the various societies of which he was treasurer are all in first-class shape.



Carnations.

On account of the backward spring there are quite a number of carnations not yet planted out, and it may be well to consider a few points on that phase of carnation culture. In a former number I gave my ideas regarding the planting out of carnations, but a difference in the season sometimes necessitates a difference in one's plans. This is a business in which no iron clad rules can be laid down to be governed by, we must be governed by the weather and a hundred other variable circumstances. A carnation to make a real good plant should be planted out not later than May 15th. It being already a little late, extra care should be taken in planting. The ground should be freshly plowed and the plants put in just preceding a rain. Our weather statistics are near enough correct for us to tell when that will be. By using freshly plowed ground you will have a nice damp soil to plant in, and to make assurance doubly sure you should not rush the plants in carelessly, as is sometimes done to get to another job. Carnations are no longer a secondary flower and they should not be given secondary treatment. Plant them carefully and firm the soil well around the plants. If the rain does not come on schedule time go along and tramp them in carefully before they get a chance to dry out too much.

Under no circumstances put a plant out dry; if you are planting in nice moist soil have the plants nice and moist and if the soil should happen to be very dry have your plants quite wet, the excess of moisture on them will then moisten the soil immediately around the roots sufficiently to carry them for quite a while without rain. My policy always has been to plant out, as stated, immediately before a rain, no matter how dry the soil might be. It is a pretty safe rule to not water them in the field; of course there are occasional exceptions, but they should be actually suffering for water before it is given them in the field and then they should be watered very heavy; it is a mistake to put a little water on the surface, which does more injury than good.

Another safe rule to follow is to allow no careless or new employee to plant out your carnations. There are three periods in a carnation's life that should have the best of attention to make a success of them; first to get a good cutting, second to get them started nicely in the field, and third to get them started nicely in the house; all of these done well by men who know how to do it and you are on a fair road to success; done carelessly and you are on the road to failure.

Most of us are working men and I find it a good plan to work right along with my men when planting out and show them by example how to do it and see that they do it as good as myself or get out of the patch; there are no half way measures allowable in so important a job. ALBERT M. HERR.

A Word for the Bench.

In the FLORIST of April 19th Mr. Herr gives the cold shoulder to the bench system of growing carnations. My experience being strongly in favor of benches, I would like to testify in their behalf, for the benefit perhaps of the man who is still "on the fence" in the matter of beds vs. benches. Right here I will say, if you have a light, sandy soil, then the soil—solid bed—will no doubt fill the bill to the best advantage. If you are favored with a good strong loam (that will cut two or more tons of timothy to the acre) then I believe that four or five inches of such soil, coupled with *liberal* feeding in the shape of fine old manure applied as top dressing, will give a better average in quantity, quality, and net cash results than can be obtained by growing in solid beds.

In advocating the bench, I do not lose sight of the fact that some varieties of carnations will do better in beds than benches; perhaps the strong growing kinds, although in my bench of Hectors—measured this day—I have hundreds of blooms that can be cut with 2½ to 3 ft. stems.

I opine Mr. Herr will readily admit that, given a strong soil, the bench system has the call from Nov. 1st to May 1st. Now then, from May 1st on, let us see if we can make a good showing. Referring to my sales account for June, 1893, I find 400 F. Mangold plants gave me 4,225 long blooms, 1,060 short, this after continuous cutting from October 10, 1892. At this date, April 25, 1894, my house, 100x20, containing 2,200 mixed plants (benches all) is in very fine condition, and promises 25% better average than I got last year. My preparation for business is:

Sods cut and piled in early spring, mixed with one-third fine horse manure; kept wet to rot; turned over in August. Before placing in bench I like to put on bench bottom 1 inch of coarse manure. In the matter of top dressing I apply from 1st to middle of January one-half to one inch *very fine* horse manure; and again in March.

The above method has thus far been satisfactory to me. E. G. BRIDGE.

Woburn, Mass.



CRESCENT WREATH OF ROSES, CATTLEYAS AND LILY OF THE VALLEY SENT TO THE FUNERAL OF THE LATE MYRON A. HUNT BY THE CHICAGO FLORIST CLUB.

Carnation Edna Craig.

We mail to-day a photograph of a bed of Edna Craig carnations, the variety that has proven disappointing to so many growers this season. Among all the varieties that we are growing this one has proven the most satisfactory both in freedom of bloom, health, and selling qualities. This picture was taken when the crop was slightly past its prime, and does not show the crop at its very best. We have cut three such crops as this one, during the season, the color running very regular in all of them.

THE HIGHLAND FLORAL CO.
H. M. Altick, Sec'y. and Treas.
Dayton, O.

[The photo showed a bench of plants in good crop. The success mentioned is simply additional evidence of the now well established fact that a variety may do finely at one place and still be worthless at others. The soil and conditions supplied by our correspondent have evidently met the needs of this carnation and success has followed. Edna Craig was full of promise when introduced. But the fact that it has since "petered out," in the soil of the introducer, under the same conditions that contributed to its first success would indicate that the variety is decidedly unreliable.—ED.]

Coleus New and Old.

LOOKING FORWARD AND BACKWARD.

I am reminded by reading an article very recently on the carnation how very much you can look backwards and forwards at the wonderful genus of which the coleus is our most familiar acquaintance. Tacitus, the Roman historian, informs us that on his visit to Great Britain, A. D. 49, he found a species of this plant, which annoyed him very much by stinging his bare legs when walking through the thickets of that barbarous country. It was then he made use of that immortal couplet "Cosmopolite idiosyncrasy supersensitiveness," which boiled down into modern Anglo-Saxon means "you darned stinging creature." The peculiar idiosyncrasy of this plant was its fluctuating environment. You never knew when you were encroaching on the sanctity of his environment until you felt his sting. Eighteen centuries passed and notwithstanding the royal blood of a past dynasty it has never improved, it is not even an "Ultima Thule" to please the esthetical cosmopolitan of this comparatively enlightened age. From many thousand miles away a plant was introduced some 50 years ago and this is the parent of all our glorious many colored coleus. By the natural law of evolution and the work of man and artificial selection they attained a few years ago the zenith of their popularity, the blotches and stripes and various shades of their coloring and still unfolding possibilities bidding us looking forward in the hope that we may some day possess a coleus embodying all the defiantly beautiful, bewitchingly impressive, evolving betterments, flashing colors, deserving the salvos of all future generations in the mighty to come, possessing the constitution that will resist from the cradle of infancy the tendency not to deteriorate under the unavoidable modified diversified environment existing in the coleus belt; in fact inheriting such sexual ancestral forces with such a focalized occult force of heredity that it won't be troubled with mealy bug. W. S.

American Seedling Roses.

We are glad to learn that Mr. Fred. Dorner, La Fayette, Ind., has taken up the rose and now has many crossed flow-

ers setting seed. Mr. Elmer D. Smith, Adrian, Mich., is also raising seedling roses, and Mr. E. G. Hill has a large number of seedlings coming on. In the greenhouses of the late M. A. Hunt are several plants bearing seed, the flowers of which have been crossed. One hep on a Kaiserin crossed with American Beauty was very full and will soon be ripe. He had also crossed the Kaiserin with Jacqueminot. There are probably others at work and we may soon expect to hear of numerous American grown seedlings of promise.

Hardy Flowers for May.

I don't know how it may be with you on the prairies, but here at the East there is a very large and growing proportion of people who have a hankering after the good, old fashioned border flowers. That they are still more likely to be in demand is I think very likely. If florists, cottagers, and amateurs can but be led to aim for special seasonal displays of such plants, rather than the hap-hazard and promiscuous arrangements commonly seen, they will be able to point with more pride to their achievements. As a small contribution to this end I give you a list of a few of the spring blooming plants, both in small shrubs and herbaceous plants, which if only brought together in any one place will be absolutely sure to make a sensation—strong in proportion to the taste displayed in their disposition and blending.

Just here I wish to say a word to the ladies; I want them to do some little missionary work, and as but few of them read the FLORIST, I want the florists to urge it upon them.

I am down upon the practices of the unskilled laborers, black, white, and yellow, who pose as jobbing gardeners. These poor vandals absolutely ruin nine-tenths of the spring flowering shrubs all over North America. They start in with a garden shears at the close of winter and modishly, sheepishly, follow each other, and vie with each other in "trimming" them, and robbing them of their flowering wood, and every vestige of grace and material expression. One of the great railway corporations (I depart from my usual practice and name it, for it hasn't a soul to harrow!), the Pennsylvania, is a prominent leader in this barbaric work. I wish I could get at the President; I would try and discover if he knew any single thing on earth about other betterments than railway betterments, and if he would apply it to the shrub-butchers all along his system. Maybe some of your readers know him, if so, do please beg of him to issue a simple order to his "Shearers" forbidding them to touch the shrubs *until after flowering*, excepting the altheas and hydrangeas. Simple thinning of old and dead wood, and gross straggling growths, is all most shrubs require. Don't forget it, for I have known these men work themselves and their abominable practices into positions which are pointed to as "patterns" for the community; a tendency only too common if ten cents can be made by the laudation.

By far the greater portion of the taste and progress of American gardening must depend upon the florists and the ladies, and they should apply themselves in unison to the correction of a manifest evil—and that immediately.

With the larger shrubs thinned and getting a living show, the following list may be used to embellish many and many a garden and render it a perennial and characteristic pleasure. The florist himself, if he will set the pace, can often make more from garden than from greenhouse plants or I am much mistaken.



DECAY OF CALLA

Among small shrubs worthy his attention are Berberis aquifolia, Daphne Cneorum, Prunus Japonica, Rhodora canadensis, Rhododendron (Azalea) amœna, Early Gem, etc., Spiræa Thunbergi, Xanthoceras sorbifolia.

And of herbaceous plants: Adonis vernalis, Alyssum saxatile, Aubretia olympica, etc., aquilegias, Anemone pulsatilla, etc., Centaurea nigra variegata, Dicentra canadensis, eximia and spectabilis, Doronicum caucasicum, erythroniums, fritillarias, Iberis sempervirens, etc., Lamium maculatum, L. m. album, Leucojum vernum, Mertensia virginica, myosotis, Muscari botryoides, M. b. alba, azurea, etc., narcissus, Potentilla verna, Pulmonaria cærulea, Phlox subulata vars., divaricata, perfoliata, stellaris; Polemonium cæruleum, variegata; Senecio aurea, Saponaria ocymoides, Silene Pennsylvanica, Thalictrum dioica, trilliums, Trollius Japonicus, etc, tulips in great var., Viola pedata and others.

This is but a very partial selection, but I venture the assertion that there is not a single florist in all North America who can write to you and say that he has any considerable portion of them arranged and growing in such a way as to be attractive to customers, and I hope they will not be offended if I say to them that I think that is *just where* they *miss it*.

Trenton, N. J. JAMES McPHERSON.

Decay of Callas.

The calla is usually comparatively free from fungous diseases. However in December last specimens were sent from St. Louis, Mo., with the statement that the plants had been imported from California, apparently in perfect health, grew luxuriantly, but shortly after blooming decay set in, and the whole lot of a hundred quickly perished. Other roots from the same lot, but planted elsewhere, behaved in the same manner. Since then complaints have come from other localities of a similar rotting. The decay began at the top of the corm and in the insertion of the leaves at the crown. The engraving made from a photograph of a longitudinal section of one of the diseased specimens, shows in its central darker portion the area of the decay.

The only sufficient cause of the trouble is microbes which were found in great abundance in the disorganized plants which gave off an offensive odor. The individual germs were ellipsoidal, from ⅔ by 1½ micromillimeters in size and members of the genus Bacterium.

An interesting point in connection with the Missouri outbreak of calla disease was that other plants grown under similar circumstances, but not from California, have thus far escaped, while those of the same importation and grown at widely separated places have been similarly affected.

It is possible that the plants were all affected at the outset with the bacterial germs or else there was some other primary cause of the disease or predisposing condition that obtained before the importation was divided up among the several growers.

As a remedial suggestion owing to the fact that the somewhat ligneous corm, below its succulent tip, does not give way readily to the bacteria, it is possible that the plant may be saved by cutting off the diseased upper portion and permitting new suckers to form that may escape the decay. BYRON D. HALSTED.

Rutgers College.

Trees for City Use.

ED. AM. FLORIST: I was much interested in Mr. Meehan's article on "Trees for city use" in your issue of March 29. One seldom sees such good sense expressed regarding the planting and pruning of street trees, and it is hoped the article may have still wider publicity. The list recommended is certainly an excellent one and the suggestions regarding the management of street trees by the municipality is one that all lovers of the beautiful would like to see adopted. It has occured to me, however, that for smaller towns—say cities of seventy-five thousand population or less, a few additions could be made to the list. One misses the elm and the box elder particularly. Neither of these species does well in smoky cities, but both succeed in large towns, and nothing can surpass the American elm as an avenue tree. Even in towns of large size the elm does well. Fine specimens are growing in Rice Park, in the heart of St. Paul, and if I remember rightly, large elms stand in the little park in Cleveland where the Perry monument is. The elm and box elder are fine for village planting. There is a row of box elders, two blocks long, in one town that are model street trees, giving a shade not too dense for glints of sunshine to penetrate, and yet sufficient for the pleasure of the passer by.

Our American sycamore can be made as useful a street tree as the European plane,



BUNCH OF UNCLE JOHN CARNATIONS AND ASPARAGUS PLUMOSUS SENT TO THE FUNERAL OF THE LATE MYRON A HUNT BY MR FRED DORNER. LAFAYETTE, IND.

if subjected to the summer pruning that Mr. Meehan recommends.

If the trees are set inside the lot line, as happens in many towns, the hackberry and the thornless honey locust may be added to the list. The hackberry is one of our prettiest native species, and the locust—I do not know whether the thornless trees constitute a separate species or not—casts the most beautiful shadow of any tree that grows. C. A. KEFFER.

Columbia, Mo., April 4, 1894.

Philodendrons.

ED. AM. FLORIST: Kindly give me advice as to proper treatment of the philodendron—heat, water, etc., and method of propagation. Can they be grown from the long runner-like roots that grow from base of petiole? BARNES.

Philodendrons are stove arads, and luxuriate in a moist heat of 70 to 75 degrees. They require shading from direct sunshine at all seasons, though the well known P. pertusum will endure partial exposure, and is frequently used for outdoor decoration in the summer.

An abundance of water is needed for these plants, and the soil should be a loose compost of equal proportions of loam and peat, to which may be added some sand and chopped sphagnum moss—the pots being also well drained.

Propagation cannot be effected from sections of the roots, but the stems may be cut into short lengths (to include at least one joint) and partially buried in a mixture of chopped moss and sand, or in cocoa fibre, and if placed in good bottom heat will soon start into growth.

W. H. T.

Counting Lily Blooms on the Plants.

It is said that the Yankee way of answering a question is to ask another. Regarding the above subject on which an article appeared in the FLORIST two weeks ago I should like to inquire whether the Easter lily bud is any more of a flower than a calla bud is a flower? If I buy roses or carnations and they have several buds on them they are not counted as flowers; why should lilies? At Easter time Harrisii lilies are quoted wholesale at 12 cents each; I offer them at retail for 20 cents and then order five hundred. When they come there are but 300 lilies including large buds that would open in two or three days; the rest are small hard buds that might flower a week later and then bring three or four cents. Five hundred bought at 12 cents would be $60; three hundred sold at 20 cents would be $60; where do I get my profit?

I also wish to inquire whether any one can give a good reason why stale roses and carnations should be paid for at the same price as fresh ones, or carnations that are burst at the same price as those that are perfect? INQUIRER.

The One Judge System.

Mr. Ewing wishes to know why I alluded to the one judge system as un-American in principle. The best explanation I can give is that advanced in the paper to which Mr. Ewing refers, namely; that the one judge system is un-American in principle because it places too much responsibility on one individual.

With all respect to Mr. Ewing I must say that I can see no similarity between the position of a judge at an exhibition and that of the President of the United States. Still these things may appear differently when seen through Canadian eyes.

Toronto, I believe, is the place where according to our friend Ewing, they object to three judges because "one does not know who to kick," and because "two duffers can over-rule one man who does know his business." I am not quite sure on the definition of the word "duffer" but presume that from a defeated exhibitor's standpoint the duffer is the man who voted to give the prize to somebody else.

It is pleasant to know that our Toronto brethren have found a system which works well and gives them satisfaction, and this being the case they would be unwise to make any change. Still I am inclined to believe that but a very small proportion of those interested in exhibitions either in American or Europe would be willing to adopt the Toronto plan even with the satisfaction thrown in of knowing "who to kick." That the wisdom of one man is greater than the combined wisdom of several is a proposition which Mr. Ewing will find difficulty in proving to the general satisfaction.

WM. J. STEWART.

Blunders in the Mail Service.

As a remarkable example of the curious errors occasionally made by the mail service Mr. H. E. Chitty sends us three letters which he received from the dead letter office April 20. One of these letters was written and mailed by himself on Dec. 17, 1889, and the envelope that enclosed same was so plainly addressed to Mr. John McGowan, Orange, N. J., that a mistake would seem impossible. The envelope bears the Paterson, N. J., postmark, of Dec. 17, 1889, 5 p. m., and has stamped on its face the legend: "Improperly held by late postmaster." On the reverse appears the postmark of Florida, N. Y., also under date of Dec. 17, 1889. It seems never to have reached Orange, N. J., and as above stated it was returned to Mr. Chitty from the dead letter office April 20, 1894, four years and four months after being mailed. But most curious of all Mr. Chitty received with his own returned letter two others addressed to Mr. Mc-

Gowan, one written by Mr. John Thorpe, at Pearl River, N. Y., under date of Dec. 2, 1889, and the other written by Mr. J. N. May, Summit, N. J., under date of Dec. 6, 1889. All of these letters were of a similar tenor, all acknowledging the receipt of flowers of the Lizzie McGowan carnation, then a novelty.

As Mr. McGowan was then, as now, at the address that appears on the returned envelope, the failure to deliver was an incomprehensible blunder. And by what process of reasoning the bright intellect in charge of such matters at the dead letter office decided that the proper thing to do was to send to Mr. Chitty the letters written by Messrs. May and Thorpe will surely remain a mystery to all ordinary mortals. It would seem that in these cases the service had taken great pains to hunt out a wrong way when the right one would have been much the easiest. And judging from this example of its work the dead letter office at Washington must be in charge of a nearly dead man.

Hyacinths and Tulips.

Recent changes in fashion and fancy have borne heavily on these once popular flowers and the demand for them as cut blooms is now but a small fraction of what it was only a few years ago. There is a good market for them yet however as plants, if well grown and placed before the public in attractive shape.

Our illustrations are from prize winning pans of ten bulbs each as exhibited at the Spring Show of the Massachusetts Horticultural Society. The hyacinths were grown by W. J. Martin and the tulips by Chas. J. Dawson. Massed in this way one variety in a pan they make desirable window decorations and give a big show for little money. Large quantities of these pans are disposed of in the Boston and New York markets throughout the winter and spring. Fitted into pretty celluloid baskets or other receptacles and encircled by ribbon of appropriate color they are great favorites in New York city as Easter gifts.



PAN OF LORD DERBY HYACINTHS



PAN OF WELL-GROWN KAISER KROON TULIPS.

Foreign Notes.

A recent writer in the *London Garden* speaking of violet Lady H. Campbell, says it favors the old Neapolitan in general appearance, and is not far behind in appearance. Its chief recommendation to him is its lateness, and it is much hardier than Neapolitan.

The April issue of the *Revue de l' Horticulture Belge*, in an article on chrysanthemum nomenclature, calls attention to the difficulty in finding any one plant under the alphabetical arrangement adopted by the compilers of most lists, namely, the using of the first letter of the prefix, whatever it may be. This writer advocates the only common-sense plan, that of using the name itself instead of the title prefixed, the plan used in the revised lists in the Florists' Directory.

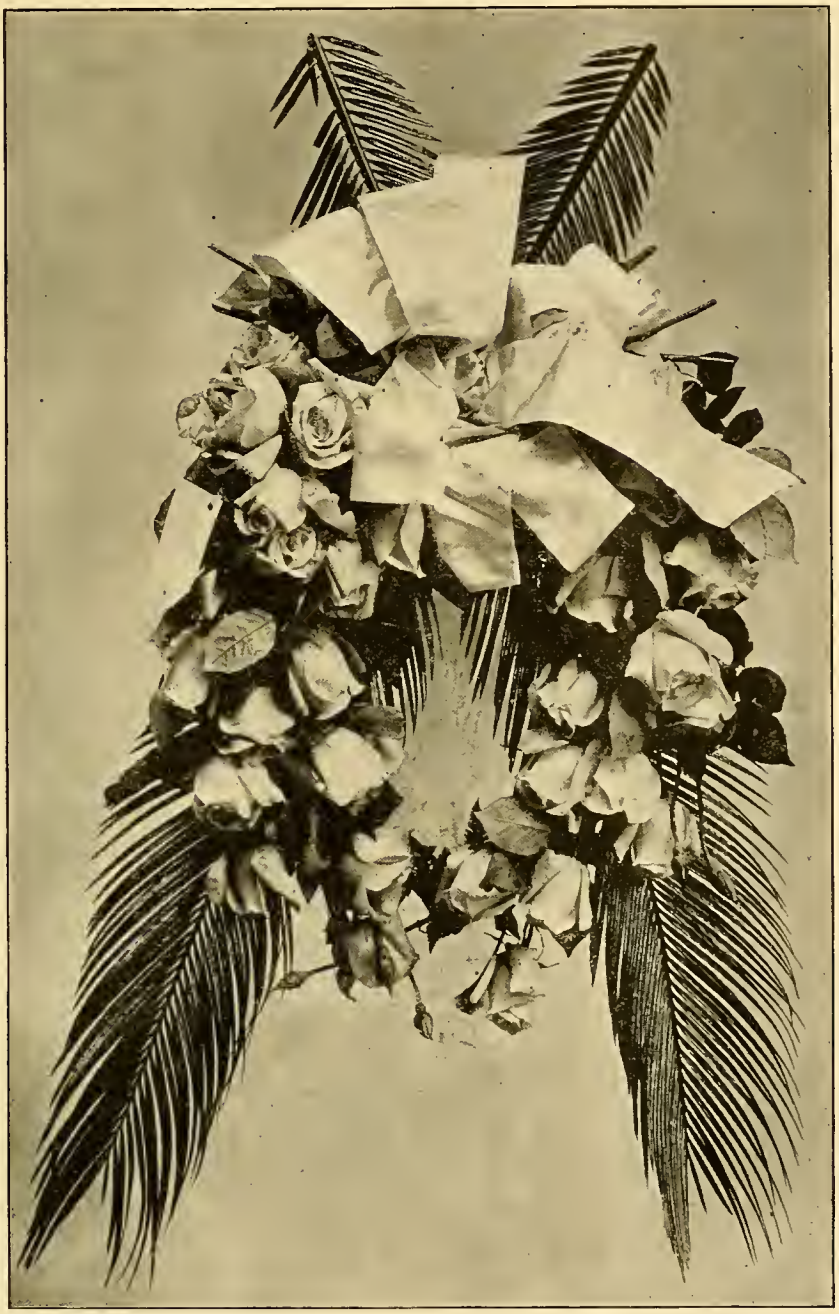
The National Horticultural Society of Paris has organized a horticultural congress. Several questions relative to forcing are to be under discussion, both of flowers and vegetables.

Maranta (Calathea) Fascinator is described as one of the most beautiful foliage plants of recent introduction. It belongs to the same group as M. Massangeana, is dwarf, the stalks and reverse of the leaves being reddish purple. The midrib is white, the other ribs rose, and the main part of the leaf deep green, with silvery markings down the center, the plant is a native of Brazil, and luxuriates under stove treatment.

Hippeastrum brachyandrum is a fine amaryllid introduced from Buenos Ayres, which has been flowered at Kew. It has erect leaves, and a scape bearing a solitary flower, rose shading to wine-color at the base. Another interesting bulbous plant of recent introduction is Gladiolus platyphyllus, imported by Max Leichtlin from Caffraria. The flower is a beautiful yellow, traversed by red veins.

A new hybrid zygopetalum, the result of crossing Z. intermedium and Z. Gautieri is Z. Perrenoudi, which is said to show the character of both parents. The petals and sepals are glaucous green marked with brown; the labellum, very large, is a beautiful violet tinged with indigo.

A new orchid has been creating quite a sensation at the establishment of Sander & Co., at St. Albans. This is Miltonopsis Bleui nobilis. The flowers are very large, measuring five inches in diameter, the



CROSSED PALM LEAVES BEARING GARLAND OF ROSES (ONE SIDE BRIDES AND THE OTHER BRIDESMAIDS) SENT TO THE FUNERAL OF THE LATE MYRON A. HUNT BY E WEINHOEBER & CO., CHICAGO.

color flesh white and rose pink with a blotch of cinnamon in the centre of the blossom. The plant carries sixteen blooms.

A new ornamental gourd, introduced from Uraguay, is Sicana atro-purpurea. The fruits are described as about five inches long, cylindric-clavate, pale claret color, with a strong apple perfume. It seems probable that this would be a striking object for cultivation in our country.

One of the many interesting things in connection with bulb growing in Holland is the spring flower show which forms a feature at most of the large establishments. The show beds are planted with the newest and most remarkable varieties, a tent being placed over them during the flowering period. It is said that in consequence of the extremely favorable season of 1893 the hyacinths will be unusually showy this year.

At a meeting of the Royal Horticultural Society in March last Monsieur Maurice de Vilmorin of Paris presented an essay on the rare trees and shrubs in the Arnold Arboretum. The essayist spoke in high praise of the many rare species growing finely at this place, and of their arrangement. He was surprised to see the stuartias flourishing there, as they do not grow well in France, the same with Styrax Japonica. In the discussion that followed the reading of the essay Mr. Geo. Nicholson alluded to his recent visit to this country.

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New York.

The market continues overstocked with flowers of all kinds excepting carnations, and the glut is further heightened by the receipt of early blooming outdoor stock. The prevailing warm weather is not conducive to the production of first-class flowers and much of the stuff coming in looks as though suffering considerably from "that tired feeling." White carnations and smilax alone are giving those who need them a chance to do a little hunting.

Ernst Asmus has come to the conclusion that the new system of growing roses in beds with the hot water pipes running underneath is of no advantage to him. He fixed up four houses in this way as an experiment last fall. He finds that they do not pay for the extra work of preparing and the cost of extra heating and will change them back to the old fashioned benches.

The only variety showing a marked improvement under the new conditions was Meteor. He found that Bridesmaids threw more flowers but that they were smaller in size. Speaking of Madame Testout he says that his faith in that rose has been greatly strengthened by his experience with it the past winter and he will grow more of it than ever next year. Brunners have been very handsome there this season. Captain Christy, of which he has been growing a small quantity, he proposes to discard; although the flower is handsome it is impossible to get good stems with it and hence it is not profitable to sell. The new rose Maman Cochet has so far proved useless with him, as he has been unable to get either buds or leaves on it, but he proposes to experiment further with this variety. Carnation Madame Diaz Albertini is looking very fine, the growth being extremely strong, and the flowers handsome.

A correspondent of the *Recorder* comes out with a warning to flower buyers against purchasing of the street fakirs, whom he characterizes as filthy and well calculated to spread smallpox and other contagious diseases. The retail dealers can do much toward checking the custom if they wish, by putting their prices down to correspond with the prevailing low wholesale rates. It is too generally the case that the public gets but little benefit of the low prices at which the growers have to let their stock go, unless they buy elsewhere than in the regular stores.

C. F. Wenderoth, of Avenue C, has been closed out.

August Millang, formerly Hanft & Millang, has given up his store on Sixth Ave.

Millang Bros. will soon give up their store on 28th street and make their permanent headquarters at the 34th street market.

Neal, of unsavory reputation in Washington, Chicago and elsewhere, is reported as about to start in business in New York once more.

Philadelphia.

Pennsylvania Arbor Day, April 27, was very generally observed in this city, and many trees were planted in the public parks. They are mostly dedicated to the memory of Philadelphia's distinguished citizens who have passed away; among those honored were Mr. G. W. Childs and Mr. A. J. Drexel. At Wootton, Mr. Childs' country seat, it had been his custom to have his distinguished visitors plant a tree and the lawn there is now graced with many fine specimens planted by some of the world's celebrities.

There is nothing new in regard to Hor-

ticultural Hall, although we are assured that everything is progressing smoothly and that before long final action will be taken and the work of rebuilding commenced.

Flowers are now abundant; there is plenty of almost everything except good hybrids, and as Beauties are now very fine their loss is not felt. J. W. Colflesh has a fine house of Jacqs; as he is the only grower of this rose in any quantity he has a ready sale, and at good prices, for all his stock, the best bringing $15 per hundred. Brides, Mermets and Bridesmaids, are still very fine. Heacock is sending in fine Bridesmaids, Evans also has good flowers. This rose will be planted quite largely about here the coming season, Robert Craig has sent in some very good Mme. Testout, which he has had no difficulty in finding a market for. We hear of several growers who will give the Testout another trial.

Except for a few daffodils from Newport and some outside tulips bulbous flowers are done for the season. Valley is in good demand, the price being $3 to $4 per hundred. Hostetter of Germantown still has some violets; they are really fine for the season. Sweet peas are very abundant, selling at from 1 to 1.50 per hundred; at these figures they seem to go very well.

For roses prices are about the same as last week, but with a drooping tendency. Carnations are to be had in quantity, but anything worth having still commands 1.50, while the fancies bring $2 and $3 per hundred. Murray of Atco, N. J., is sending in very fine long stemmed McGowans. There is quite a demand for yellow daisies, which sell readily for 2 per hundred. Harrisii lilies and callas bring $6 to $8 per hundred; smilax is scarce at 15 to 25.

The seedsmen are all now very busy and report trade above their expectations. Harry Michell had a narrow escape from fire a short time ago; the third story of his building he lets out to a fancy sign painter and fire breaking out in this room threatened destruction to the entire building, fortunately in answer to the alarm, a chemical engine was first to put in an appearance and confined the fire to this room, extinguishing it without damage by water, which would have been disastrous to Mr. Michell's stock. His store from cellar to roof is arranged in an admirable manner, and he certainly deserves the success he is having.

Mr. J. N. May was reported to have had a team of bowlers from Summit to meet the Phila. contingent last Thursday evening, but he did not put himself or his team in evidence, neither did some one else who was expected; however if he should make up his mind to bring a team he will not be sorry for it, for even if his team should not happen to be victorious they will not be able to say they did not have a good time, so say the Phila. boys.

The match series or trial games or contest from among the winners of which will be selected those who will represent the club in the contest at Atlantic City is to be started the first Thursday in May. The boys mean business this time, and every effort will be put forth to make the team a winner. K.

Acacias.

The cultivation of the acacia as a rule is not attended with any great difficulties, provided there is some attention paid to their requirements; attention they are entitled to, for they are all interesting, and quite a large number of the species, of which there are a great many, are exceedingly pretty and graceful when in flower.



ACACIA HETEROPHYLLA.

They will do admirably well in a cool greenhouse kept some few degrees above the freezing point. Some of them attain large proportions in a short period of time, while others are less vigorous; the latter therefore are more adapted for pot and small specimen culture. Amongst the latter are found the most graceful forms, such as pubescens, Drummondii, heterophylla, Riceana, cultriformis, and a host of others.

The slender twiggy varieties will strike root comparatively easy, Drummundii being one of the easiest that has come under my notice, pubescens being one of the most difficult. Indeed there are very few that succeed in rooting pubescens, though some claim that it is fairly easy to increase it from root cuttings, which mode I have not tried.

I find them to do well in a compost of fibrous loam, good leaf mould, and upland peat. The former equal to, or a little better, in quantity than the other two ingredients combined, with an additional portion of sharp clean sand. They require considerable pot room, and must not to any extent be confined in this direction, for they will soon resent it by showing a scraggy and stunted appearance.

It is hard to lay down recommendations as to the best and most graceful of them, each having a charm and grace of its own. Pubescens seems to take the cake with most people, especially with the ladies, and they know as a rule what is pretty and graceful. Its wavy and drooping habit is shown off to the best advantage on standards from five to eight feet in height. Drummundii, however, has a warm corner in my bosom, and deserves a place near the top of the class; its large yellow catkin-like flowers resting on deep green foliage makes it an object of great beauty. It is best in a pyramid form and requires little or no pruning. Heterophylla is a gem of the first water, its long and slender twigs clothed with numerous yellow flowers renders it an object of much grace. The flowering wood on this and similar kinds ought to be cut back considerably after flowering.

Acacia cultriformis is another beautiful variety, a more vigorous grower than any of the others mentioned, the color of the flowers being deep orange yellow. It is very distinct, the leaves being set on edge on the branches and peculiarly shaped, like the *coulter* of the plough, from whence it gets its name. It makes a fine standard; it requires to be pruned after flowering to within a few inches of the old wood.

Acacias are all benefited by use of stimulants occasionally, of a commercial sort, rather than the barnyard order. Most all of them do best planted out in a cool greenhouse, where such accommodations can be given them. The varieties above mentioned were selected for their good behavior and floriferous results in pots, to which selection a number of others could be added. KENNETH FINLAYSON.

Boston.

It is many months since prices were as low on roses, carnations and other cut flowers in Boston as they have been during the past week. Roses have suffered particularly in this respect, and there have been more of them coming in than the market, fakirs and all, could possibly



ACACIA DRUMMONDII.

consume. With carnations the trouble has been pretty well confined to the colored sorts. White carnations have sold fairly well but this cannot be said of any other kind. Puritan is one of the leading whites here among the late bloomers and is generally liked. It will be grown quite extensively for this market next season.

Outdoor daffodils will begin to come in in a day or two. This will finish what is left of the sale for indoor blooms which, however, cannot well be much worse off than they have been during the past week, a sample sale being the disposal of a lot of three dozen to a bootblack at the market in exchange for a "shine." Most of the violets now being received are the deep colored Cape Cod variety and this spoils the chances of the Marie Louise which is now of poor quality anyway. Sweet peas are getting more abundant and prices are lower. Smilax is quite scarce; if there was any special demand for it, it would bring a high figure.

Traveling men have been flocking to Boston in unusual numbers recently. There are now in the city Geo. Sykes, representing Hitchings & Co.; J. R. Frotheringham, for Lord & Burnham Co.; A. T. Boddington, for United States Nursery Co.; Martin Reukauf, for H. Bayersdorfer & Co.; A. Dimmock, for Sander & Co., and John Barclay, for John Gardiner & Co.

An enterprizing individual has brought from Florida a large shipment of tillandsias which he offers for sale in a temporary store, but although the plants are in good condition and prices very low, people do not appear to take much interest in the "Air Plant."

Chicago.

Moving day, May 1, has made a good many changes, particularly among the wholesale men. In the first place the Chicago Cut Flower Exchange has moved out of existence. The commission firms who occupied quarters on the floor of the Exchange have severally moved into their new homes. Corbrey & McKellar occupy a very pleasant suite of rooms at 64 and 66 Wabash avenue. Chas. McKellar is at present holding the fort at this establishment; he is trying in his usual way to mesmerize prospective customers with that sweet and winning smile pecularly his own. J. B. Deamud & Co. are now keeping company with Kennicott Bros. on the second floor of 34 and 36 Randolph street. Their rooms are pleasantly situated on the first half of the floor. Prince & Co. have taken a room at 42 Wabash avenue also on the second floor. The growers who occupied tables at the Exchange have formed a company and bought the assets of the Cut Flower Exchange, in the shape of furniture, etc., and will operate as "successors" to the old corporation. A room 50x34 has been rented at 59 Wabash avenue, second floor. The following have taken tables on the floor: The Niles Centre Floral Co., Geo. Klehm, Amling Bros., J. Tonner, Rockafellow, and H. Hansen. The Niles Centre Co. intends to carry on their shipping business as formerly, handling their own stock exclusively, as no regular commission business will be allowed under the new rules.

Complaint of poor business is universal. In retail circles nothing whatever seems to be doing. There is here and there a little funeral work, but nothing else of note. Transient trade is almost entirely monopolized by the street merchants, who fairly swarm in the down town district.

The market is in worse condition than ever. The extremely warm weather towards the end of last week rushed the crop forward at such a rapid gait that even with a good business it would have been difficult to dispose of it to advantage.

There is no settled price for anything. Nominally roses are held at $1.50 to $2, but in reality the bulk of the stock is sold for much less. Bridesmaid, Meteor, Jacque and Beauty are the only roses at all in demand and some sort of a price is obtained for them. Good Beauties bring from $12 to $20, Jacqs $8, Meteor and Bridesmaid $3 to $4.

Carnations have at last been carried down in the general slump. The best stock is sold at 75 cents, the bulk going at from 50 to 60 cents, and in large lots at even less.

In bulbous stock, valley has been scarce at $3. Tulips, daffs and Dutch hyacinths are coming in freely from the open ground but there is little demand for them. Tulips and daffs are quoted at $1, Dutch hyacinths at $2 to $3. The few violets sent in are sold readily at 75 cents. The sale for arbutus is almost entirely restricted to the street. The quality this year appears to be inferior to former seasons.

At the club meeting held Thursday the matter of providing new quarters came up for consideration. In the absence of President Hauswirth, who in company with G. L. Grant, J. C. Vaughan and J. T. Anthony, attended the funeral of M. A. Hunt, Mr. Edgar Sanders acted as chairman pro tem. No report being made from the trustees to whom this matter was delegated, action had to be deferred. Meanwhile the effects of the club will be taken care of by Geo. Klehm and temporarily stored at the quarters of the new exchange.

Action was taken on the sudden death of M. A. Hunt and the following resolutions were unanimously adopted:

WHEREAS, The Club has learned with profoundest sorrow of the death of Myron A. Hunt, an honorary member of this body, a man universally honored and highly respected by the entire profession of this continent, whose liberal, broad and advanced ideas and rigid integrity ranked the very highest in our midst, be it

Resolved, that this Club extend their heartfelt sympathy to the members of the family of our late associate in this hour of their great affliction.

Resolved, that the secretary be instructed to forward a copy of this resolution to the family of the deceased.

E. H. Hunt has removed to 68 Lake St. The main floor of the new quarters will be devoted to the seed trade and florists' supplies. The second floor will accommodate the cut flower business of the firm.

H. F. Halle and wife will leave on an extended European trip about the first week in July.

The situation at Lincoln Park remains about the same. Superintendent Pettigrew has not yet been removed and acting on the advice of his friends he has not resigned. The latest effort toward retaining his services was made by the North Town Board who have made an urgent request—almost a demand—that he be not disturbed. As the Board is the body that makes the appropriations for the maintenance of the park its voice ought to carry some weight. But it is unlikely that anything can now stop the governor in his mad course. He undoubtedly realizes that nothing he may now do will remove the stigma of his actions up to this time, and probably does not care what further results follow. Even the practical politicians have deserted him, feeling probably that they could not afford to link themselves longer with the most unpopular man in the state. The governor is at present at Hot Springs, Ark., and on his return he will probably take official action, and few doubt that that action will be the summary removal of President Waller of the Board of Commissioners, and Superintendent Pettigrew. Mr. Waller has improved his time during the last few weeks in preparing statements of the affairs of the park in refutation of the silly charges made by the governor's henchmen. The daily press have given space to same but with deprecatory editorials, taking the stand that there was no call for a gentleman of his standing to defend himself against such silly charges from such dubious sources.

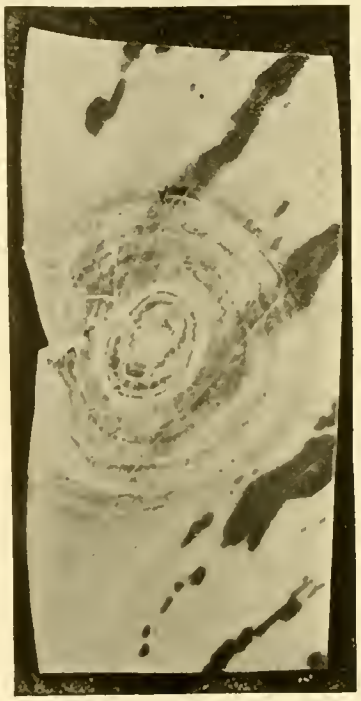
The tulips are now in splendid bloom at the park and everything is looking well.

Mr. Geo. Miller is preparing to rebuild his burned greenhouses at Hinsdale and expects to have every thing in shape again before a great while. He is convinced that the fire was incendiary. The barrel of gasoline near which the fire started was fully 25 feet away from any fire or light and every precaution had been taken in the use of the fluid. The gasoline was used to run a pumping engine. After the fire the iron faucet of the barrel was found, turned wide open. Mr. Miller believes that the incendiary turned the faucet open, allowed a considerable quantity to escape, and then dropped in a lighted cigar or match and ran. The gasoline must have been pretty well run out of the barrel as there was no explosion. The fire ran the length of the shed with frightful rapidity. Mr. Miller found the gasoline pumping engine very handy but will not have any more gasoline around his place with which to tempt fate, and will employ some other power in future.

Joe Curran at the telephone—"Hello! Say, what do you mean by charging me for 20 bunches of violets when there are only 19 by actual count?—Mistake? I counted them myself and give you my word that the mistake is on your side, and by the great horn spoon I expect you to make it right!—Of course! Did you think I was born yesterday?—Never mind, one bunch counts big the way business runs now.—Is that a joke?—All right I'll do my laughing after I close up to-night. Business is too solemn now to permit even a smile during business hours. Good bye."

Anthracnose of Dieffenbachias.

The successful growing of the dieffenbachias in their best estate is greatly retarded by an anthracnose, and in some places they have been given up. The plant sickens through and through, becomes feeble in leaf, the dwarfed foliage fails to develop the charming variegation characteristic of healthy plants, and finally the leaves become spotted, turn brown and die. The cause of this trouble is a fungus of the genus colletotrichum which by means of its microscopic filaments penetrates all parts of the plant, particularly the leaves. The blanched portions of the foliage are the least able to resist the inroads of the fungus, and are the first usually to show unmistakable signs of the presence of the parasite. Sometimes the disease starts at a point in the middle



ANTHRACNOSE OF DIEFFENBACHIAS.

of a leaf and spreads from there in all directions.

The engraving shows a portion of a leaf, the picture having been taken by direct printing by the sun upon the sensitized paper, and therefore true to life in its many details, the only point to be borne in mind being that the colors are largely reversed. Certain small specks may be seen in the diseased areas, and these are the places where the fungus has developed its masses of spores. By means of these spores, which germinate in a few hours the anthracnose is able to be spread to new plants. It is not known how wide a range this fungus has and it is possible that it grows upon other plants than the dieffenbachias. BYRON D. HALSTED.

Rutgers College.

St. Louis.

Warm weather appears to have commenced in earnest, and the expected result is shown in the improved market trade, which is much better than last week; the prices realized however, are considerably lower than in former seasons, buyers apparently being limited in regard to amount; shipping trade is also good, and is about holding its own with last season; the prices realized on this class of trade are about the same as in former years, owing to its being ordered from catalogues.

Quantities of cut flowers are being received as a result of the higher temperature, and there is a heavy loss in all kinds, there being very little demand; the best stock alone sells, it being impossible to give the poor stock away. There are fine specimens of all the varieties in season being received by the various commission men, but trade is nothing like what it should be; prices are merely nominal, the wholesalers being glad to get any price whatever. Beauties have been in fair demand but have suffered with the other stock.

A special meeting of the club was called on the 24th, to take some action in reference to the death of Mr. M. A. Hunt, the call was promptly responded to, and a set of resolutions drawn up and forwarded expressing the sorrow felt by members of the organization. A wreath was also forwarded by the club, and Mr. J. M. Jordan was sent on in person to represent the St. Louis Florist' Club and to show in a slight measure the respect and esteem in which our late fellow craftsman was held.

The beds in all the city parks have been ablaze the past two weeks with Dutch bulbs, this being especially noticeable in Forest Park, where large quantities of tulips have been used the past season; the show has been worth seeing and everyone visiting the parks has left delighted with the display.

Quite a novelty was noted in the city during the past month; it consisted of a show window in one of the large down town stores arranged to represent a bit of nature; the floor was nicely sodded, and all through the sod were various varieties of wild flowers in bloom. The idea was well carried out in the surroundings, and the execution of the details was well attended to. R. F. T.

Catalogues Received.

Wm. Preer, Columbus, Ga., chrysanthemums; Newport Nursery Co., ornamental trees, shrubs and plants; same, hardy herbaceous plants; C. J. Speelman & Sons, Sassenheim, Holland, bulbs; Williams & Sons Co., Batavia, Ill., plants; same, tree and plant labels; K. G. Dekker, Chicago, plants and nursery stock; F. Sander & Co., St. Albans, England, new and rare plants; Wm. Cuthush & Son, Highgate Nurseries, London, Eng., nursery stock; Chas. Vuylsteke, Loochristi, Ghent, Belgium, palms, azaleas, etc.; W. J. Hesser, Plattsmouth, Neb., decorative plants; H. F. Michell, Philadelphia, bulbs and seeds; James Veitch & Sons, Chelsea, England, plants; Jules De Cock, Ledeberg-Ghent, Belgium, plants; I. L. Pillsbury, Macomb, Ill., plants.

Crude Oil for Fuel.

Replying to R. E. Moir, crude oil could be shipped to Massachusetts for fuel and save money over coal if properly handled. It should be shipped in tank cars and to store a car load a large storage tank would be necessary. To compare cost of coal and oil for fuel purposes figure 125 gallons of oil as equivalent to a ton of coal. If Mr. Moir will write me I will give details of the burner I use.

Woodmere, Mich. GUS. KNOCH.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

News Notes.

ROCHESTER, N. Y.—Chas. Barthold has started in the nursery business here this spring.

POTTSTOWN, PA.—Edwin Wickersham & Co. are adding a rose house 18x100 and a violet house 10x30.

TACOMA, WASH.—William Russell, formerly of Ford River, Mich., has located here and will start in business.

NEWBURG, N. Y.—Henry Carter, a florist of this city, made an assignment to Leander Brown on April 21.

GLENDALE, MASS.—Diehl & Towle, Meadowside Conservatories, is the name of a new florist firm just started here.

WESTERLY, R. I.—The Botanical Society has received several hundred specimens from C. H. Dennison of Brooklyn, N. Y.

SIBLEY, ILL.—C. Hokanson has taken charge of the Burr Oaks Greenhouses and will make a specialty of violets and pansies.

NEW HAVEN, CONN.—Geo. A. Dickerman, of 619 Chapel street, made a voluntary assignment on April 20. Fred Betts is named as trustee.

MINNEAPOLIS, MINN. — William Rath, for some time with E. Nagel & Co., has now taken a similar position with J. B. Heiss, Dayton, Ohio.

COATESVILLE, PA.—James Brown, Jr., has secured a site for a greenhouse plant and will begin at once the building of three houses 16x100 each.

RIDGEWOOD, N. J.—The Thurston greenhouses and nurseries have been purchased by Messrs. Thompson and Hampson of Paterson, who will continue the business.

ELMIRA, N. Y.—Mr. Grove P. Rawson, who has passed the greater part of the winter in the tropics, arrived home on April 16, having had a long and tempestuous voyage.

HELENA, MONT.—Mrs. Mattie Miller, the florist, has a seedling fuchsia, 3 years old, which is 5 feet in height, 18 feet around the top and 6½ inches around the stem at the surface of the soil.

CLIFTONDALE, MASS.—A thief broke into the office of David Allan and stole some books and other articles on the night of April 18. Among the books taken was the American Florist Co.'s Directory. That thief knew what was good.

NEW BEDFORD, MASS.—The premium lists for the seventh annual Chrysanthemum Exhibition of the New Bedford Gardeners' and Florists' Club have been completed. Schedules and entry blanks may be obtained from the secretary.

NEWPORT, R. I.—The Newport Horticultural Society's fifth annual chrysanthemum show will be held at Masonic Hall on Nov. 6, 7, 8. Schedule of premiums may be obtained from the secretary, Mr. Alex MacLellan, Ruggles Ave., Newport.

TACOMA, WASH.—The Tacoma Amateur Rose Club has been organized with officers as follows: P. V. Cæsar, Pres.; Mrs. L. P. Bradley, Vice Pres.; J. M. Winslow, Sec'y. A constitution has been adopted and meetings will be held the first Wednesday of each month to discuss the cultivation of roses and other flowering plants.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As rose grower, or general florist: lately employed by Dingee & Conard Co.
G. F. LONGSDON, 844 W. Lake St., Chicago.

SITUATION WANTED—By young woman to learn general greenhouse work; Wisconsin or neighboring states preferred. Address
MISS MIRIAM JEWETT, Sparta, Wis.

SITUATION WANTED—By first-class florist with life experience; age 32; able to take full charge of commercial or private place. Address
N M, care American Florist, Chicago.

SITUATION WANTED—As foreman for commercial place; well up in roses and general plants; 18 years' experience; can handle men; good references. Address W S, care American Florist.

SITUATION WANTED—By young single man; 5 years experience in growing roses carnations, violets and general stock; commercial or private; references. P P, care American Florist.

SITUATION WANTED—As second gardener in a private establishment, or as general nursery hand; good experience in all branches; English, age 27, single, abstainer. F. HILL, W. Porter St., Oswego, N. Y.

SITUATION WANTED—By a florist, 28 years of age; good propagator, grower and forcer of roses; is competent to take full charge of growing cut flowers and plants. Address G. KROITOR,
care A. Dittrich, Kensington Sta., Philadelphia.

SITUATION WANTED—As working foreman on commercial place, well up in growing roses, carnations and general florist stock; age 37, married. Good references. State wages. Address
J R, care American Florist, Chicago.

SITUATION WANTED—By single young man as first-class florist and salesman; ten years' experience in New York stores; willing to go any distance from New York; best reference. Address
FLORIST, 68 W. 43d St., New York City.

SITUATION WANTED—By first-class designer, also willing to make himself useful in greenhouse if necessary; single man of 30; first-class references. Will work for moderate salary if steady place. Address C W, care American Florist.

SITUATION WANTED—As manager or foreman; thoroughly versed in growing cut flowers and plants; has lived in some of the leading places in England and this country; over 20 years' experience; good references. When applying give particulars.
FLORIST, 129 N. Clark St., Chicago.

SITUATION WANTED—By a practical Scandinavian, 18 years' experience, married, as a working foreman or gardener in commercial or private place; thoroughly understands all branches of the trade; highest references; state wages; west preferred. Address PRACTICAL, care American Florist.

SITUATION WANTED—By a good florist and gardener in a commercial or private place; thoroughly competent to manage place, in forcing roses, carnations, bulbs and general florist stock; German, single, 27 years of age; good references from former employers. Address F. C. R., care Lakewood Greenhouses, Minneapolis, Minn.

SITUATION WANTED—By a Scandinavian florist, age 26; experience in roses, carnations, chrysanthemums, English cucumber, propagating. Would like to take charge of a small place, private or commercial. One year's experience in a private place, W. E. Stockton, Esq., 16-18 W. Lake St.; gives reference from same. Appreciates a nice room and a good home. Chicago suburb preferred. State wages. Address METEOR, care American Florist.

WANTED—A single man as helper in greenhouses. Call at our store, 51 Wabash Ave.
REINBERG BROS., Chicago.

WANTED—A first-class florist, rose, carnation and violet grower; good wages to right man.
WIETOR BROS., Highridge, Ill.

WANTED—Small or medium size refrigerator; also 300 to 500 feet of ¾-inch galvanized or black pipe.
JOSEPH BANCROFT, L. Box 24, Cedar Falls, Iowa.

WANTED—A good all-round man to grow roses, carnations and chrysanthemums and plants for market; wages $25 with board, lodging and washing. Apply O. G. JOHNSON, Kingston, Ontario, Canada.

WANTED—To purchase florist establishment adapted to cut flower growing for the market; a location in eastern New England preferred. Address
A, care Eastern Office American Florist, 67 Bromfield St., Boston.

WANTED—An experienced florist, one familiar with propagating and growing roses and carnations. Steady work for the right man; single man and German preferred. Address
W. W. JAMISON, Thorp's Lane, East of Wister, Germantown, Philadelphia.

WANTED AT ONCE—Working foreman, for forcing roses, carnations and general stock. Must be temperate and reliable—married man preferred. A good place for the right man. Address, stating wages expected, experience and references,
I. SHELBY CRALL, Monongahela, Pa.

FOR SALE.

At a bargain, the best retail florist place (1 store and greenhouses) in the city and doing a good business; poor health reason for selling. For further particulars address H. F. HALLE, 548 W. Madison St., Chicago.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man.
WILFRED A. BROTHERTON, Rochester, Mich.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about $75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—2 large Bay Trees, round heads, 7 feet broad, 12 to 14 feet high. Shown at World's Fair.
VAUGHAN'S SEED STORE, Chicago.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE OR TO LET—10,000 feet glass in 8 green houses, 1½ acres of land, dwelling, stable, and population 20,000, eastern Pennsylvania city; will guarantee to take ½ cut flowers grown, or will sell ½ interest. Correspondence solicited.
KEYSTONE, care American Florist.

FOR SALE.

6000 Lizzie McGowans, 3000 from 2-inch pots, $2.00 per 100, and 3000 well rooted cuttings, $1.00 per 100.
Cash with order or C. O. D.
JAMES CHALK, Norristown, Pa.

ROSE GROWER WANTED

WANTED—A thoroughly competent man to take a position as foreman in a first-lass establishment within a few hundred miles of Chicago. Must be a man who can grow roses and carnations of the very best quality. Must be temperate, thoroughly experienced and reliable. The best of references required from reliable growers. This will be a good and permanent position to a good man. Any such who would make a change within the next few months will do well to correspond with us. Address
"LA FRANCE," care Am. Florist.

Splendid Business Opportunity

The widow of the late Robert J. Purvis, being unable to continue the business, will sell at a low price the stock of 35,000 plants, tools, etc., used in the business of her late husband. Everything in first-class condition. The six greenhouses can be leased for a term of years at a low rate. A splendid opportunity for an energetic young man with some capital. Address
MRS. R. J. PURVIS,
EDGEWATER, CHICAGO, ILL.

A RARE CHANCE FOR INVESTMENT

FOR SALE.

Columbia Farm, containing over 20 acres arable and grazing land, climate one of the finest in the world. Frost and malaria unknown. Lilies, narcissus and amaryllis grown in open ground throughout the winter. Enough Harrisii and other Bulbs will be furnished to stock the farm, so that new proprietor can enter at once into business, which should be started not later than August next. Our Harrisii Bulbs have a world wide reputation, and a good practical manager can secure handsome profits. Sold because other business claims my attention. Communicate with
R. H. JAMES, Proprietor, St. Georges, Bermuda.

NOTICE.

Chicago Flower Exchange.

At a special meeting of the Stockholders of the Chicago Cut Flower Exchange, held at No. 45 Lake Street, Saturday morning, April 28th, it was resolved to discontinue the business. All persons having claims against the Chicago Cut Flower Exchange are requested to present same at once, and those indebted to said Exchange are requested to make payment without delay to
GEO. KLEHM, Sec'y,
59 Wabash Avenue, CHICAGO.

The Directory

For 1894

IS NOW READY.

Price $2.00.

AMERICAN FLORIST CO.,
CHICAGO.

Cincinnati.

Very few of our florists are suffering this week, in fact they are very well pleased with the trade they are having. Huntsman & Hardesty had the decorations for the Brud—Rhodes wedding, which was a very fashionable one, and L. H. Kvrk & Co. made the bride's and bridesmaids' bouquets.

A foreign society paper states that the daffodil is quite the thing in England and as America apes after the English to a certain extent, daffodils ought to be good stock to have for next Christmas and New Year's.

J. A. Peterson is building two new houses, one for violets, the other for propagating.

Peter Herb is having a good sale of rooted cuttings of Adelaide Kresken carnation.

A few handsome blooms of yellow mums were received recently from E. G. Hill & Co., Richmond, Ind. They met with ready sale.

Stock in general is good and prices remain a little firmer this week. White stock of all kinds is quite scarce, especially carnations and Brides. American Beauty is more plentiful and sells readily at 25 for good flowers.

H. L. Sunderbruch has returned from a few days fishing and hunting at St. Mary's. "Did not see any fish or ducks."

The announcement of the death of Myron A. Hunt was a great surprise here. Much sorrow is expressed as he was held in high esteem by all who knew him. E. G. GILLETT.

"BRICK" is the title of a new trade paper devoted to the interests of the brick-making industry, published by Windsor & Kenfield, Chicago, who also issue that handsome publication, the *Street Railway Review*. The title is certainly a model of brevity, and is at the same time fully descriptive of the industry represented. We are always in sympathy with true brevity—that which says much in few words—and "Brick" will make no mistake in keeping its contents in line with its title.

YOU CAN never invest $2 to better advantage than in a copy of our trade directory and reference book.

Chrysanthemums.

Now is the time for benching or prize growing. Buy no rubbish, but freshen your stock with the very finest novelties and extra large flowering varieties, all suitable for cut bloom, at prices lower than old played-out kinds are offered by others. STRONG, HEALTHY PLANTS, NO ROOTED CUTTINGS; 100 plants, 20 kinds 5 of each, $4.00, post free $4.50, or 100, all different, my selection, at same prices.

A. Starnes (yellow),	J. Hill (dark),
M. A. Wheeler (yellow),	Niveus (white),
Pres. Smith (pink),	A. T. Ewing (pink),
A. Wood (dark),	G. R. Gause (bronze),
J. Williams (white)	L. Mennad (dark),
M. Sievers (yellow),	J. G. Whilldin (yellow),
Kate Brown (white),	Mrs. J. Jones (white),
Black Beauty (dark),	Col. Smith (bronze),
Roslyn (pink),	Golden Gate (old gold),
Portia (pink),	Sun God (yellow),
Autocrat (yellow),	Ivory (white),
Old Homestead (white),	Summit (lemon).

With each 100 I add one each of the following, which alone are worth the price:

Mrs. E. G. Hill, Silver Cloud, Great Republic, Gen. Gth, Mary Hill, Frank Hatfield

Don't miss or pass this unparalleled offer, it will not appear or be made again.

T. H. SPAULDING, Orange, N. J.

CLEMATIS.

12 Choice leading kinds. Large flowering
Two years $3 per doz., $22.50 per 100
Three years $4 " $30.00 "

DAISIES.—Snowflake and Snowcrest, distinct kinds, indispensable for spring sales, $2 per 100.

SMILAX SEEDLINGS,

from fall, 75 cents per 100; $6.00 per 1000.

F. A. BALLER, Bloomington, Ill.

SPECIAL OFFER to the TRADE

50,000 New Yellow Coleus

GOLDEN CROWN, the most hardy, strongest growing, highest colored yellow to date, 2-inch, well grown, $4 per 100; $35 per 1000; 250 at 1000 rates throughout.

10,000 in 12 other standard leading sorts, plants $1.50; rooted 70 cts. per 100.

10,000 Snow Crest Daisies, $3 per 100; $25 per 1000.

30,000 Mnm. Verbenas, progressive type, none better.

5,000 of them Climaxers the Peerless crimson bedder.

10,000 seedlings from our XX and XXX progressive seed will give the most splendid new kinds, all perfectly clean and healthy, 3-inch, strong, fine, in bud, $2.50; flats $1.50 per 100, seedlings same rate; special rates per 1000.

5,000 Vgt. Vincas, extra fine, 3-inch $3; flats $1.50; rooted $1 per 100.

5,000 Giant Scabiosa Snowball, per 100 $1.50; seed, 25c. for large trade packet.

10,000 Gibson's sweet scented hybrid pansies, flats $1; frame $2 per 100; seed ⅛ oz. 50c., ¼ oz. $1, ½ oz. $1.50.

5,000 Gem Feverfew, 5,000 Golden Marguerites, 5,000 Dwf. Lobelias, 5,000 Golden Feather and C. Gymnocarpa, the last two seedlings small pkts. $1 50, rooted cuttings 75c. per 100.

Double Petunias, Dreer's new '93 set and the Queen the best all round double white, rooted, named, labeled, $2 per 100.

Mexican Primrose, three novelties, named, rooted $1 per 100.

30,000 Eulalia Zebrina and Japonica, potting size $2 50 per 100.

5,000 Torenia Fournieri, seed pan 50 cts., from flats $1 per 100.

Lots of other good things. Write for what you want. Premium offer for every $5 order: We will put in free 6 Giant Nerum Verbena and 1 Golden Strand Coleus; doubled on every $10 order, and 1 Dak. Primrose, 1 pkt. Double Petunia and 1 pkt. Scabiosa snowball when desired. Price list free. Address, cash with order please.

J. C. GIBSON, Woodbury, N. J

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 26 Greenwich St., New York City

READY FOR BUSINESS

Make known your wants and we will be pleased to quote prices.

CATALOGUES NOW READY. . .

W. A. MANDA,
The Universal Horticultural Establishment,
SOUTH ORANGE, N. J.

Latania Borbonica.

From 6-inch pots, 24 inches high, with 5 to 7 characteristic leaves.

$1.00 each; $9.00 per dozen; $75.00 per hundred. Price of smaller sizes on application.

NATHAN SMITH & SON,
157 W. Manmee St., ADRIAN, MICH

Marie Louise
VIOLETS

Rooted Cuttings, $5 00 per 1000.

ANCHORAGE ROSE CO.,
ANCHORAGE KY.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Primula Obconica and Moonvines.

	Doz.	100
Primula Obconica, fine young stock	$.50	$ 3.00
Moonvines, white and blue	.50	4.00
Achillea fl. pl	.60	4.00
Alyssum Tom Thumb, variegated & white.	.40	3.00
Ageratum, white and blue	.40	3.00
Aloysia citriodora	.60	
Abutilon, our selection	.50	4.00
Alternantheras, from flats (per 1000 $15)	.25	2.00
Begonias, Argenteo Guttata	.40	3.00
" Metallica	.40	3.00
" Lisbi or Diadem	.60	4.00
Balm, variegated	.40	
Calla Little Gem, 2-inch	1.25	10.00
" " 3-inch	1.50	12.00
" " 4-inch	2.50	20.00
Centaurea Gymnocarpa	.40	3 00
Carnations, our selection	.50	4.00
Cestrum Parqui	.60	5.00
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Chrysanthemums, our selection	.40	3.00
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SPECIAL OFFER. Per 100 Per 1000

Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
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Any of the above plants 25 at the 100 rate.

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where we will be pleased to see you. We are now as were before prepared to fill all orders with good stock and prompt shipment. Come and visit our new quarters when you are in the city.

We remain yours,

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Hardy Cut Ferns,

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ROOTED CUTTINGS of COLEUS, your selection, $6.00 per 1000. Our selection, $5.00 per 1000.
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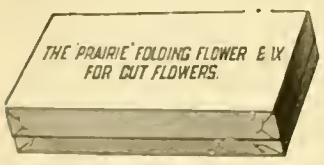
The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

IN OUR ISSUE for the 17th of August, 1893, we called attention to the fact that the Society of American Florists had provided for the preparation of a list of decorative plants handled by the American trade, to be adopted as the official list of the Society, with a view to securing a uniform and simple nomenclature in the trade. The committee appointed for this purpose has now begun work on the list, with Professor William Trelease, of the Missouri Botanical Garden, St. Louis, as chairman, and desires three copies of each catalogue issued by any American dealer within the last year. These should be sent at once to the chairman of the committee, at St. Louis, marked on the outside, "For the committee's use." We cannot too strongly urge upon every American dealer who issues a catalogue, or who advertises in the journals, the importance of at once complying with this request, so as to simplify the task of the committee, which is at the best a very laborious one; and we are certain that if the wishes of the Society are carried out, the trade will be very much benefited thereby.



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Made from heavy, Manilla lined, Strawboard. Shipped flat, packed 100 in a crate.

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" Meteor, Mermet, Bride	1.00@ 4.00
" Bridesmaid	2.00@ 5.00
" Testout	2.00@ 5.00
" Beauty	2.00@20.00
" Hybrids	2.00@20.00
" Jacqs	5.00@20.00
Carnations	1.00@ 3.00
Harrisii	2.00@ 4.00
Violets	.50@ .75
Valley	1.00@ 2.00
Daffodils, Tulips	2.00@ 3.00
Sweet peas	1.00@ 1.50
Mignonette	2.00@ 4.00
Marguerites	.50@ .75
Hyacinths	1.00
Smilax	15.00@25.00
Asparagus	35.00@50.00
Adiantum	1.00
Lilacs, per bunch	.50@1.00

BOSTON, April 28.

Roses, Niphetos, Gontier	1.00@ 3.00
" Perle, Sunset	1.00@ 3.00
" Bride, Mermet	1.00@ 4.00
" Jacqs	6.00@ 8.00
" Brunner	3.00@20.00
Carnations	1.00@ 2.50
Violets	50@ .75
Harrisii	3.00@ 4.00
Stocks	1.00@ 2.00
Lily of the valley	1.00@ 3.00
Daffodils, Astilbe	1.00@ 2.00
Mignonette	1.00@ 2.00
Sweet peas	1.00@ 1.50
Adiantum	1.00
Smilax	12.00@16.00
Asparagus	50.00

PHILADELPHIA, April 28.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watteville, Hoste	2.00@ 3.00
" Bride, Mermet, La France	4.00@ 6.00
" Kaiserin, Bridesmaid, Testout	5.00@ 8.00
" Belle, Beauty	10.00@25.00
" Laings	12.50@25.00
" Jacqs	10.00@15.00
Carnations	1.50
	2.00@ 3.00
Valley	3.00@ 4.00
Yellow daisies	2.00
Violets	.75@ 1.00
Mignonette	1.00@ 1.50
Asparagus	50.00@75.00
Harrisii lilies	6.00@ 8.00
Sweet peas	1.00@ 1.50
Cattleyas	40.00
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Smilax	15.00@25.00

CHICAGO, May 1.

Roses, Beauty	12.00@20.00
" Jacq	8.00
" Bridesmaid, Meteor	3.00@ 4.00
" Mermet, Bride, La France	1.00@ 1.50
Carnations	.50@ .75
Valley	3.00
Harrisii	4.00
Tulips, daffs	1.00
Dutch hyacinths	2.00@ 3.00
Violets	.75
Sweet peas	1.00@ 1.50
Smilax	10.00@15.00
Asparagus	50.00

CINCINNATI, April 25.

Roses, Beauty	10.00@25.00
" Mermet, Bride	4.00@ 5.00
" Perle	2.00@ 3.00
Carnations	1.00@ 3.00
Callas, Harrisii	6.00@ 8.00
Violets, Pansies	.50
Valley	3.00
Pink Romans	3.00
Smilax	15.00
Adiantum	1.00
Asparagus	50.00

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Roses, Beauties	10.00@25.00
" Jacqs, Brunners	8.00@12.50
" Mermet, Bride	4.00@ 6.00
" Meteor	4.00@ 8.00
" Gontier, Perle Hoste	3.00@ 5.00
" Cusin	3.00@ 5.00
Callas, Harrisii	8.00@10.00
Carnations	1.50
" Daybreak and Wm. Scott	1.50@ 2.00
" short	.75@ 1.00
Valley	3.00
Violets	.50@ .75
Tulips, Daffodils	2.00@ 3.00
Romans	2.00
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Mignonette	1.00@ 2.00
Smilax	15.00@20.00
Adiantum	1.50
Asparagus	50.00

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For 1894

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Bridesmaid,
Meteor,
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Roses Shipped to all points. Price list on application.

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Careful Shipping to all parts of the country Price list on application.

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BOXES OF CUT ORCHIDS,

Ranging in price from $5 to $25.

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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, at Toronto, Ont.

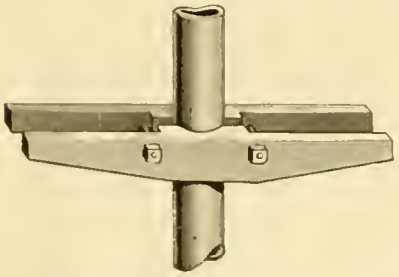
C. A. HAYNES, senior member of the firm of C. A. Haynes & Co., New York, custom house brokers in the horticultural trade, died suddenly last week. The business will be continued under the same firm name.

HENRY NUNGESSER, New York, has admitted Marshall H. Duryea as a partner, and the business will be continued under the title, Henry Nungesser & Co.

VISITING NEW YORK: H. W. Buckbee, Rockford, Ill.; John Frazer, Philadelphia.

Clamp Iron for Swing Shelf.

I send herewith a sketch of a clamp iron for a swing shelf that I have found extremely useful, the ease with which it can be lowered or raised nearer the glass giving it an immense advantage over a



fixed shelf. The idea is probably old, but I never happened to see it in use for the purpose and having found it so useful myself I thought there would be others not familiar with it and whom it might also benefit.

As shown in the sketch the device consists of two irons clamping the iron pipe post fastened by two bolts. By loosening the bolts it can be placed at any point on the pipe that seems desirable. The irons I use are 10-inch, carrying a 12-inch shelf. The thing was so simple we made the pattern ourselves and had the irons cast. The two irons and the two bolts cost about 18 cents a set.

Boston. WM. C. BOWDITCH.

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FINE, SOUND BULBS.

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2nd Size..... .60 " 5.00 "

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HYACINTHS, TULIPS, NARCISSUS,

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HEADQUARTERS FOR HIGH GRADE FORCING BULBS.

Wholesale Importers should write us for Prices.

OUR NEW TRADE LIST NOW READY.

JOHN SPEELMAN OF

C. J. SPEELMAN & SONS,

WHOLESALE BULB GROWERS,

(45 ACRES IN CULTIVATION.) SASSENHEIM, HOLLAND,

Begs to advise his American customers that he will call upon them at an early date and asks that orders be reserved until he has called. I shall be in America till May 15, and up to that date correspondence addressed to JOHN SPEELMAN, care of KNAUTH, NACHOD & KUHNE, 5 South William Street, NEW YORK, will have prompt attention.

SUMMER DELIVERY.

FREESIAS, LIL. LONGIFLORUM, CALLAS, GEM CALLAS, AMARYLLIS, CALIFORNIA BULBS, Brodiaeas, Calochortus, Fritillarias, TREE FERN STEMS, and Australian Palm Seeds. Send for our NEW PRICE LIST.

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SEEDS! PLANTS! BULBS!

Everything appertaining to the **Farm** and **Garden** of the best and choicest quality. PRICES RIGHT.

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PETER VAN VELSEN & SONS,

Houtvaart-Overveen near Haarlem, Holland.

Growers of Hyacinths, Tulips, Crocus, Narcissus, etc. Catalogue free on application. Special prices given for large quantities.

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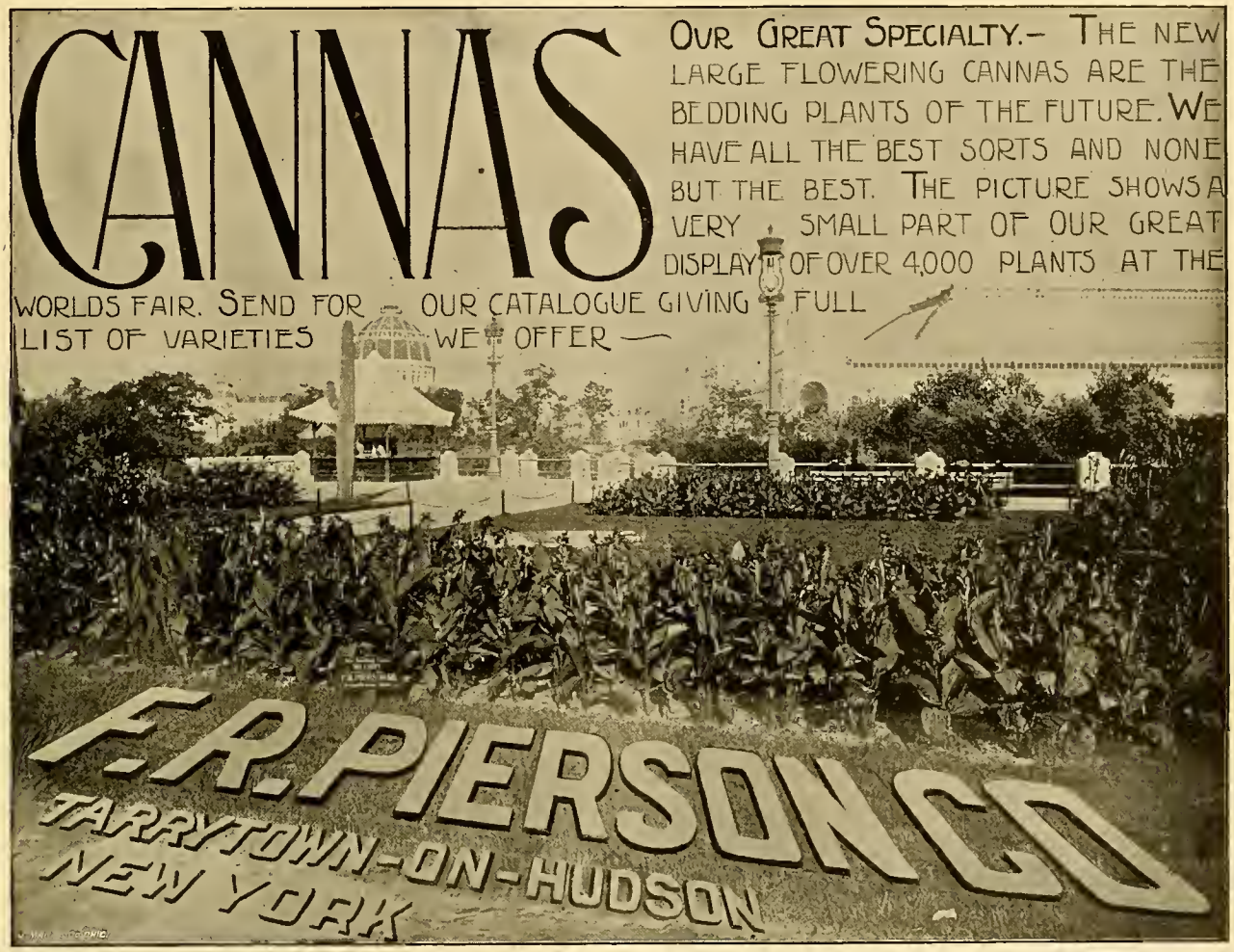
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Hulsebosch Brothers,

OVERVEEN, near Haarlem, HOLLAND.

Bulbs AND Plants

We are now prepared to quote lowest possible prices for next July, August and September delivery.

HULSEBOSCH BROS.,

58 West Street, NEW YORK CITY.

After May 1, '94, address will be ENGLEWOOD, N J.

LILY OF THE VALLEY BULBS.

OSCAR KNOPFF & CO. Erfurt. Germany.

Seed growers to H. M., the Emperor of Germany.

Very BEST Hamburg and Berlin qualities, 3 years old, for forcing.

For particulars apply to

C. B. RICHARD & CO., AGENTS,
61 Broadway, NEW YORK.

MAKE A NOTE OF THIS.

Geraniums, 2½-in. pots, our selection	$2.75 per 100
Fuchsias, " " "	2 75 "
Coleus, 2½ and 3-in. " "	2.00 "
" rooted cutting	.50 "
Roses, 2½-inch pots	3 00 "
Cosmos, from flats	1.25 "
Candytuft, from flats, white	1.25 "
Hardy Dianthus, from flats	1.25 "
Stock, from flats, Giant Perfection	1.50 "
Polyanthus, from flats.	1.50 "

Cash with the order.

MRS. J. P. BEAN & CO., Mt. Pleasant, Iowa.

Pansies in bloom.

First-class plants from cold frames. Send $2.00 for sample hundred.

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SASSENHEIM, - HOLLAND,

— GROWERS OF —

HYACINTHS, TULIPS, NARCISSUS, ETC.

Now ready to quote our lowest prices for Wholesale Importers.

Mention American Florist.

FREESIA REF. ALBA

500,000 No. 1 Bulbs.

Guaranteed free from any mixture of the yellow variety.

Delivery after 15th May.

E. C. PEARMAN,

SHELLY BAY, BERMUDA.

WANTED.

Large quantities of

Tuberoses and Lilium Harrisii,

Crop '94, from growers only.

J. C. SCHMIDT, Erfurt, Germany.

Here's a New One.

Send prices on any thing good and cheap. Trade lists wanted.

A. J. SEIDERS, TAYLOR, TEXAS.

CYCLAMEN SEEDS,

European strain.

LILIES OF THE VALLEY,

Berlin and Hamburg Pips.

FLOWER SEEDS for Fall delivery.

METAL WREATHS.

All at Import Prices.

SCHILLER & CO.,

Commission Seed Merchants.

122 E. 23rd Street, NEW YORK.

Please make us offer of all kinds of Seeds and Bulbs, we will sell it for you.

ROOTED CUTTINGS

GOOD ONES.

Verbenas, 23 varieties	90c. per 100; $8.00 per 1000
Heliotrope, 7 varieties	per doz. 20 cts,
Fuchsias, 12 varieties	" 20 cts.
Cigar Plant and Lopezia	" 20 cts.
Giant Alyssum and Marguerite Daisy	" 20 cts.
Manettia Vine, Mex. Primrose & Sultana	" 25 cts.
Red, White & Blue Plant (Cuphea Llavæ)	" 30 cts.
Chrysanthemums, 20c. Coleus, 12c.	Postage 1c. a doz.

Send for catalogue. I. L. PILLSBURY, Macomb, Ill.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Toronto.

The voice of the bull frog may be now heard in the land, trees are bursting into leaf, gardeners and florists are unapproachable, seedsmen are working day and night, summer is coming and springtime is here (28th April). I mention the date because it is quite possible and even probable that the thermometer may get down in the depths again before this appears.

Cut flowers are very plentiful but prices—well the less said about them the better. Butchers and grocers are selling roses. One of the largest stores in town (where they sell everything, from a paper of pins to a barrel of whiskey) has started into the florist line now, the first in this city to do so. It takes the entire cut of one of the large growers but I have not yet heard with what success.

At the next regular meeting of the G. & F. Association Professor Panton of the Agricultural College, Guelph, will lecture on "Fungi." A social programme has been arranged also. The meeting will be open to all interested. E.

Interesting Questions.

At a recent meeting of a certain amateur horticultural society, the, question box disgorged the enquiry, "Why does Turkshead cacti grow tall instead of round"? The member called upon for an answer replied that he would explain the matter if any body would tell him "why the pumpkin grows round and the cucumber long." Those people must be hard up for subjects.

CONSTANT READER.—It would be impossible to tell you a remedy for "spots on palms" until the character of the disease was determined. Send a piece of a diseased leaf to Prof. Byron D. Halsted, Rutgers College, New Brunswick, N. J., with a request that he name the disease and best remedy or preventive. He makes a specialty of investigating fungous and bacterial diseases of plants. If it is anything new he will likely prepare a descriptive article for our columns.

PANSIES,

THE JENNINGS STRAIN.

Plants in bud and bloom $1.50 and $2.00 per 100, $15.00 per 1000; medium sized plants of mixed, white or yellow, $5.00 per 1000. Extra 60c hundred by mail.

New crop Pansy Seed ready June 25th better than ever. Cash with order.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock Box 254. SOUTHPORT, CONN.

ROSES.

Brides, Mermets, Perles, Cusins, Hoste, Watteville, Gontier Meteor and La France at $1.00 per 100. Bridesmaid and Beauty, at $6.00 per 100. Strongly rooted Beauty cuttings at $3.00 per 100. Special prices on quantity. Let me price your lists. Cash with order.

ROBERT F. TESSON,
West Forrest Park. ST. LOUIS, MO.

ROSES.

Perles Brides, Mermets.

Strong healthy plants, from 2-inch pots, $3.00 per 100.

H. E. WILSON,
88 East Main St., ROCHESTER, N. Y.

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YOUNG ROSES.

We offer a limited quantity of the following varieties:

Am. Beauties, in 2 and 3-inch pots.
Perles in 2-inch pots.
Mermets in 2-inch pots.
La France in 2-inch pots.
Albany in 2-inch pots.

BASSETT & WASHBURN, Hinsdale, Ills.

ROSES. ROSES.

	Per 100.		Per 100.
Am. Beauties,	$6 00	Brides, - -	$3 50
Testout, -	6 00	La France, -	3 50
Meteors, - -	3 50	Mermets, -	3 50

Special discount on our Beauties on orders of 500 or over.

REINBERG BROS., 51 Wabash Ave., **Chicago.**

ROSES, all the very best both new and old.

CHRYSANTHEMUMS, the cream of all the long list now offered, in extra fine plants now ready for immediate delivery. JOHN N. MAY, Summit, New Jersey.

Brides, Bridesmaids, Perles, Meteors, Hostes, From 2, 3 and 4-in. pots. **ROSES** Cusins, Beauties, Niphetos, Testouts, La France, Mermets,

Address for quotations T. W. STEMMLER, VILLA LORRAINE ROSERIES, Madison, N. J.

Sole Agents for U. S. for Chas. Macintosh & Co., England, Inventors of Vulcanized India Rubber. Extra strong greenhouse hose to withstand high pressure. ¾-in., 3-ply, 15c. per foot in 50 feet lengths.

2 1-2 Cent ROSES.

200,000 from 2½-inch pots, at $25 per 1000; $3 per 100.

STRICTLY OUR SELECTION. Cash with Order.

50,000 from 4-inch pots, at $60 per 1000; $7 per 100.

VARIETIES IN STOCK.

HYBRIDS—M. Baumann, Black Prince, Alfred Colomb, F. De Lesseps, De Graw, Dufferin, Edinburgh, Holmes, Giant of Battles, Lefebvre, Lyonnaise, Prince Arthur, E. Verdier, E. Fuerst.

HYBRID TEAS—Weilshott, Meteor, Pink Rover, La France, White La France, Albany, Wootton

TEAS—Bravy, Gontier, Golden Gate, Mermet, Brides, Passot, President, Rubens, Anna Ollivier, Perle, Sunset, Schwarz, Watteville, Hoste, Salviati, Safrano, Waban.

CLIMBERS—Baltimore Belle, Seven Sisters, Tennessee Belle, Gustave Gossard, Marechal Niel, Solfaterre, Devoniensis, Lamarque, Perle, Richardson.

Also Queen's Scarlet, Soupert, Chatelard, Pernet, Kuster, Mignonette and other varieties.

Quality of stock guaranteed. Personal inspection invited. Send for quotation on your own selection.

THE NATIONAL PLANT CO.,
Dayton, Ohio.

200 Niphetos Roses, 20 inches high, $10.00 per 100. Bouvardias, rooted cuttings, 5 vars. $1.50 " Blue Lobelias, for Baskets, ready to bloom, $2.00 per 100.
Verbenas, $2.50 per 100. Extra fine colors. Write for list and low prices.

McGREA & COLE, Battle Creek, Mich.

FINE STOCK **100,000 ROSES.** BEST SORTS

In prime condition for planting out or repotting. Young stock full of vigor. We name a few sorts:

Perle, Sunset, H. M. Stanley, Golden Gate, Victor Hugo, Brownlow, Ctesse. de Labarthe, Krueger, J. B. Varrone, Niveus, Mme. Camille, Humer, Aurora, A. Christophle, Ben Sliene, Coquette de Lyon, J. Schwartz, Salviati Souv. de F. Gaulin, Souv. de Pernet, Striped, White and Pink La France, Bride, Mermet, Christine de Noue, Mme. Pierre Guillot, Meteor, Hermosa, Queen's Scarlet, M. Niel, Lamarque, Solfaterre, Euphrosyne, Dijon, E. Pradel, Reve d'Or, Lady Washington, W. A. Richardson, Reine Olga, Paquerette, Mignonette, C. Brunner, Mrs. Degraw, Empress Eugenie, Rosanquet, and dozens of other good sorts.

Above assortment, not in excess of any one sort, $3.00 per 100; $30.00 per 1000.

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CLIMBERS: Balt. Belle, Prairie Queen, Tennessee Belle, $1.00 per 100; $30.00 per 1000.

A big stock of bedding plants. Write for quotations.

Address NANZ & NEUNER, Louisville, Ky.

FOR SALE.

Choice lot of young rose plants out of 2½ and 4-inch pots. Mermets, Brides, La France, Perles and **Bridesmaids.** Apply

GORDON PARK GREENHOUSES,
Glenville, Cuyahoga Co., Ohio.

"MUST SELL"

to make room. Young roses, strong, 2½-inch Brides, Mermets, La France, Albany, Perles, Wootton, at 3c.; $25.00 per 1000. Smilax plants, ready to plant, 2c. Cash with order.

SOUTH SIDE FLORAL CO., Springfield, Ill.

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CARNATIONS.

Portia, Darling, Dorner, at $1.25 per 100; $10.00 per 1000.
Daybreak and Edna Craig at $2.00 per 100.
Annie Pixley and Helen Keller at $10 per 100; 25 for $3.00.

COLEUS.

Fine assortment, clean cuttings, at 75c. per 100 or $6.00 per 1000.

200,000 SMILAX

Ready May 15th and after, at $6.00 per 1000 or 75c. per 100. An honest sample for 10c.

Cash with the order or C. O. D.

ALBERT M. HERR, L. B. 496, **Lancaster, Pa.**

4 NEW CARNATIONS
FOR 1894.

UNCLE JOHN, white; **THE STUART,** scarlet;
E. A. WOOD, pink variegated;
GOLDFINCH, yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from **Headquarters.** We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Ellz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.
Send for price list.

F. DORNER & SON, La Fayette, Ind.

MONEY-GETTERS ALL!

THESE NINE **CARNATIONS** FROM SOIL.

Free from Disease and First-Class in every way.

- Uncle John
- The Stuart
- Wm. Scott
- Edna Craig
- Albertini
- Daybreak
- Cartledge
- McGowan
- Portia

Note, before you order elsewhere, that we offer the above and twenty other good varieties of Carnations, well established in soil, ready for planting out or potting up—delivery in April—at the price of cuttings from sand, and guarantee satisfaction. Send for list.

ALEX. McBRIDE,
ALPLAUS, N. Y.

THE DIRECTORY

. . FOR 1894 . .

Is Now Ready.

PRICE $2.00.

American Florist Co.

HELEN KELLER
THE STUART
UNCLE JOHN
GOLDFINCH

These and all the leading varieties, including WM. SCOTT, DAYBREAK and TIDAL WAVE ready now. Send for prices.

GEO. HANCOCK & SON,
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Pansies.

Fine plants of best strain, just coming into bloom, $15.00 per 1000.

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THE QUALITY OF THE PLANTS WE ARE SENDING OUT OF "HELEN KELLER"

Will be readily understood by the following:

"DEAR SIR:—I wish to heartily thank you for the very superior rooted cuttings of Carnation 'HELEN KELLER' you sent me. They are the very best that I have ever received from any party. I wish I had ordered double the number. Yours very truly, N. H. SPAFFORD."

PRICE FOR WELL ROOTED CUTTINGS:

$3.00 per dozen; $12.00 per 100; $25.00 per 250; $90.00 per 1000. 500 at 1000 rate.

ORDERS MAY BE SENT EITHER TO

EDWIN LONSDALE, *CHESTNUT HILL, PHILA.* or **JOHN N. MAY,** *SUMMIT, N. J.*

THE COTTAGE GARDENS, QUEENS, LONG ISLAND.

NEW CARNATIONS.

Will have ready about May 20th rooted cuttings as follows:

10,000 WILLIAM SCOTT.
10,000 DIAZ ALBERTINI.
5,000 McGOWAN.
1,000 THOMAS CARTLEDGE.
5,000 PORTIA.

Daybreak sold out

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE.

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000.
Send for price list.

EDW. SWAYNE,
KENNETT SQUARE, PA.

THE JACQUEMINOT CARNATION

Is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. **NO MORE SAMPLES**—we cannot spare the time. Send for circular. Per dozen, $2.00; per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.

PETER FISHER & CO.,
ELLIS, Norfolk Co., MASS.

WE are now filling promptly all orders FOR **Ada Byron and Nicholson CARNATIONS.**

They are the cream of the year.
Send for circular to

JOSEPH BRECK & SONS,
(CORPORATION),
BOSTON, MASS.

SEND FOR OUR PRICE LIST OF

CARNATION ROOTED CUTTINGS.

Prices Greatly Reduced.
Largest Stock in the United States.

ESSEX HEIGHTS FLORAL CO.,
BELLEVILLE, N. J.

PANSIES.

Imperial German, mixed, very large plants; all blooming. $2.00 per 100; $15.00 per 1000.

GERANIUMS.

Double and single mixed, in 3-inch pots, $3.00 per 100.

PETER BROWN, Florist,
LANCASTER, PA.

COLEUS.

In Assorted lots only.

ROOTED CUTTINGS, in 30 to 40 varieties, (our selection), at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.

NEW KINDS, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.

We will include at least 50 cuttings of the new kinds in every 1000 purchase.

W. R. Shelmire,

CARNATION GROWER,
. . . AVONDALE, PA.

ROOTED CUTTINGS OF CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chester Co., PA.

CARNATIONS

ROOTED CUTTINGS NOW READY.

Wm. Scott, Edna Craig, Daybreak, Thos. Cartledge, Buttercup, McGowan, and many of the standard kinds. Orders filled for the New varieties,
Stuart, Uncle John, Helen Keller, Sweetbrier, Annie Pixley, Bouton d'Or.

C. J. PENNOCK,
The Pines. **KENNETT SQUARE, Chester Co., PA.**

HEALTHY CARNATION CUTTINGS.

	Per 100	Transp'd.
HINZE'S WHITE	$1.00	$1.25.
McGOWAN	1.50	2.00
ANNA WEBB	1.50	2.00
LAMBORN and WILDER	—	1.50
PORTIA	—	1.50
PORTIA, in pots	—	2.00
AURORA, in pots	—	2.50.

No Rust.

J. T. DeWITT, Bristol, Pa.

THE DIRECTORY

For 1894

IS NOW READY.

St. Paul, Minn.

Trade for the week has been good, an improvement over the previous week. The bright warm weather has brought things forward rapidly and an abundance of fine bloom is now being cut. Prices however remain firm, the best stock selling readily, and there is no glut of anything in the market. Blooming plants are selling fairly well and help to increase the total sales to as high a point as has been reached this year with the exception of Easter. Quite a number of weddings have occurred, as the "mating season" is now on, which have taken some flowers though we have learned of no very extensive decorations.

Department stores have again begun their flower and plant sales, selling all kinds of potted plants at from 8 to 10 cts. each, cut roses at 40 to 50 cts. per doz., carnations 12 to 25 cents per doz., etc. One Minneapolis house recently disposed of 50,000 carnations at 1 cent each. This probably accounts for the large shipments from Chicago noted in your last issue, and fully sustains my argument in a previous number that if they could not buy at home they would elsewhere.

L. L. May & Co.'s establishment is now much like a bee hive. They are shipping immense quantities of plants and report their trade ahead of previous years. Roses, small fruits and shrubs are selling best, while the call for other plants is also very large.

E. F. Lemke has commenced building three more houses. This doesn't look like dull trade or a poor year with him. We hear of more greenhouses to be built this summer. This is very encouraging and would indicate that St. Paul florists have not had so poor a year after all. It would also indicate that with some the demand is keeping ahead of the supply.

In going through the city we see but very few beds of tulips and other spring flowering bulbs. This seems to the writer an unpardonable omission and suggests an opportunity for our florists to drum up a trade in this line. With the present low prices of bulbs and the increasing desire for flowers among our people, a great deal more ought to be done in the bulb line. Nothing is handsomer on the lawn than a well arranged bed of tulips or crocus. A word to the wise is sufficient.

We have heard nothing about a "mum" show for the twin cities. Can't our florist friends drop their petty differences, form a strong society, work together for the common good and show the rest of the country that Minnesota is keeping pace with them in the floral business! We have the florists, the houses, the flowers, the plants, in fact everything needful but unity, rose shows, chrysanthemum exhibitions, carnation exhibits, etc. Cultivate a friendly feeling, get acquainted, drop your jealousies and work together, and you will see better prices, better sales, better stock and better times.

Our Holland friends are still coming. Visitors last week, L. Van Leeuwen, Sassenheim, Holland; J. B. Van Der Schoot, Hillegom, also Mr. Wm. Currie of Milwaukee. FELIX.

Verbenas, Postpaid.

Best varieties of pot plants, $2.50 per 100.

ROOTED CUTTINGS, to close at once, 50 cts. per 100; $3.00 per 1000. As a Special Inducement we will send the Rooted Cuttings PREPAID.

A RARE OFFER! Elm and Ash, Catalpa, Box-elder, Cherry and Lilac Trees, at 20 per cent. discount for cash the balance of the season. Send at once.

2½ to 6 ft. Elms $4.00 per 100.

WILLIAMS & SONS CO., Batavia, Ill.

Manufacturers of "BATAVIA LABELS"

Mention American Florist.

A Few Gems

YOU OUGHT TO HAVE.

FUCHSIA LITTLE BEAUTY.—A Gem of the first water for florists and market gardeners; will produce triple the amount of flowers than any other sort, and a very early bloomer, single blue corolla; sells at first sight. Price $1.00 per 12; $7.00 per 100.

PETUNIA PINK BEAUTY, the best selling plant for any florist, color most exquisite rose, finely fringed and filled; grow a big house full of it and it will net you a quicker net profit than any other plant—$1.00 per 12; $7.00 per 100.

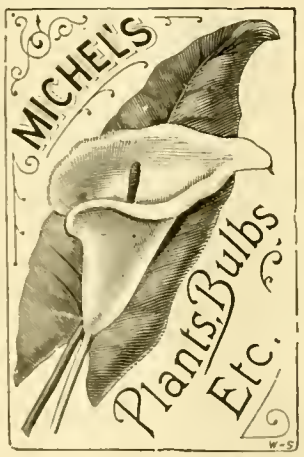
MARGUERITE CARNATION, finest strain for summer bloom; will give you flowers for 5 months outdoors in greatest abundance; $3.00 per 100. $25.00 per 1000.

CHRYSANTHEMUM THE QUEEN, the white Chrysanthemum for the million as pot plant or cut flowers; largest flowers without too much care; $5.00 per 100; $45.00 per 1000.

OUR NEW ROSE AMERICAN PERFECTION.—This sport will produce twice the flowers than Mermet or Bridesmaid on strong erect stems, and flowers will last a week in perfect condition, a vivid rose; also the finest bedder among Teas. Try a hundred; you will not repent it. Only $6.00 per 100, $50.00 per 1000, from 2-inch pots. Send a list of your wants. Address

NANZ & NEUNER, Louisville, Ky.

When writing mention the AMERICAN FLORIST.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,

ST. LOUIS, MO.

Mention American Florist.

PLANTS.

	Per 100
Alternantheras, P. major, Aurea nana, Tricolor (Rosea nana), Versicolor	2.50
Plumbago, Capensis and Alba	4.00
" Lady Larpent's	4.00
Perennial Phlox, fine assorted	$6.00 and 4.00
Achillea "The Pearl"	4.00
Begonias, assorted: Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't	$3.00 and 4.00
Abutilons, assorted	4.00
Echeveria Extensa globosa, 3 to 6 inches across, per dozen, $1.00.	
Mexican Primrose	3.00
Lady Washington Geranium	6.00
Achyranthus, assorted	3.00
Coleus, assorted	$2.00 and 3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Antherieum picturatum	per dozen, 75c.
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00
Silver Leaf Geraniums, 3 varieties (no Mme. Salleroi)	4.00
Oxalis, Ortgiesi	4.00
Dahlias, named, our selection	5.00
French Cannas, named, our selection, dry roots	5.00
French Cannas, unnamed	3.00
" potted	10.00
Fancy Leaf Caladium, fine mixed	6.00
" " named	8.00

Trade list on application.

ROBT. S. BROWN & SONS,

Box 39. KANSAS CITY, MO.

The Water Garden.

Special and Hardy Water Lilies of all colors.

VICTORIA REGIA AND V. RANDI, EURYALE FEROX.

Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc., etc. Nymphea Laydekeri rosea awarded a Medal at World's Fair; most charming of all the HARDY Lilies; $2.50 each.

Other Columbian Novelties see catalogue.

WM. TRICKER & CO., Clifton, N. J.

ROOTED CUTTINGS

CHRYSANTHEMUMS

Write for list and prices. Prices to suit the times.

STRONG SMILAX, from 2½-inch pots, $3.00 per 100; $25.00 per 1000.

PANSIES, from cold frame, first size, $25.00 per 1000; second size, $15.00 per 1000.

Address J. G. BURROW, Fishkill, N. Y.

50,000 Dwarf French CANNAS.

We offer the above quantity in strong, well established plants from 3 and 4 inch pots. This stock must not be confounded with dormant pieces or freshly divided plants out of benches.

We list here only the principal varieties of which we have a large supply. For a general list refer to our Spring Trade List which describes over seventy-five varieties, including all the desirable novelties of the season, including the grand New German variety, Konigin Charlotte:

	Per 100
Madame Crozy	$10.00
Alphonse Bouvier	10.00
Paul Marquant	10.00
Capt. P. de Suzzoni	15 00
Florence Vaughan	25.00
Charles Henderson	25.00
Paul Bruant	20.00
Admiral Gervais	15.00
Comtesse de L'Estoile	15.00
Chas. Dippe	15.00
Cronstadt	15 00
Denil de St. Grevy	15.00
Explorateur Crampbel	15.00
Gustav Senneholz (true) distinct	15.00
Maurice Mussy	15.00
Martin Cahuzac	15.00
Marquise Arthur de L'Aigle	10.00
Nardy Pere	15 00
Professor Gerard	15.00
Secretary Stewart	15 00
Stadtgartner Senneholz	15 00
Antoine Crozy	8 00
Admiral Courbet	8.00
Antoine Chantin	8.00
Baronne de Sandrans	10.00
Baronne de Renowardy	8.00
Comte Horace de Choiseuil	10.00
Duchess de Montenard	12.00
E. Chevreul	12.00
Enfant du Rhone	10 00
Edward Michel	12.00
Francois Maire	12.00
Geoffroy St. Hilaire	8 00
J. Thomayer	20.00
Miss Sarah Hill	15.00
Mr. Cleveland	15 00
Mlle. Liabaud	12.00
Nelly Bowden	8.00
Princess Lusignani	12.00
Perfection	15.00
Souvenir de Jeanne Charreton	8 00
Statuaire Falconis	8.00
Trocadero	8.00
Ventura	8.00
Viticulteur Gaillard	8.00
Kaiser Wilhelm	8,00

We will furnish one each of the above varieties, 46 plants for $5.50.

Among Crozy's New Cannas of this season Paul Sigrist is undoubtedly the most distinct and striking novelty. We are the only American house offering this variety to the trade this season. In general habit similar to Mme. Crozy, but of a bright crimson color nearly as rich as Alphonse Bouvier with a very broad golden yellow border. Stock limited, $2.50 each.

HENRY A. DREER,

PHILADELPHIA, PA.

THE ASSOCIATION FLORA,

BOSKOOP, HOLLAND.

NOW ON HAND IN NEW YORK:

CLEMATIS in sorts, 3 years, per 100 $25.00
SPIRÆA JAPONICA " 4.00
DIELYTRA SPECTABILIS " 4.00

Lilium speciosum, Psonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9.00: Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Bleshach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

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206 Cambridge Ave., JERSEY CITY, N. J

SPECIAL OFFER

Dating from May 7, 1894.

E. G. HILL & CO.,

WHOLESALE FLORISTS,

RICHMOND, INDIANA.

ROSES.

	Per 100
Bridesmaid, the queen of pink forcers, 2½-inch	$ 4.00
Kaiserin Aug. Victoria, 3-inch	6.00
" " " 2½ inch	4.00
Mme. C. Testout, the very finest 2½-inch stock ever offered	6.00
Senator McNaughton, an elegant new rose, a sport from Perle, cream color, very free, magnificent in size and form; no bull heads	10.00
Meteor. 3-inch, grand stock	6.00
" 2½-inch	4 00
Christine de Noue. the double Papa Gontier, 2½-inch	4 00
Niphetos, 2½-inch	4 00
Cusin, 2½-inch	4.00
Bride, 2½-inch	3.00
C. Mermet, 2½-inch	3.00
Duchess of Albany, 2½-inch	3.00
Aug. Guinoisseau, 2½-inch	3 00
Perle des Jardins, 2½-inch	4 00

H. P'S.

Ulrich Brunner, the grand forcing H. P. in great quantity, very fine stock from hard wood cuttings and now in prime condition	$ 5.00
Mme. Plantier	5.00
H. P. S IN SPLENDID ASSORTMENT, A FINE SELECTION, $40 per 1000	5.00

ROSES FOR THE CATALOGUE MEN

Stock up now for next year.

A choice and unique collection of Polyantha Roses. Novelties of this year from Europe:

	Per 100
Etoile de Mai, Princess E. Lancellotti, Petite Leonie, Mme. E. A. Nolte, Leonie Osterrieth,	$10.00

	Per 100
Also the remarkable NEW TEA ROSE **Beaute Inconstant**, an ideal catalog rose; the color in the bud is orange-scarlet, with bright green calyx, a great improvement on Ma Capucine in size and color; extremely variable and very attractive in every phase	15.00
Tri. Pernet Pere, Hybrid Tea, a fine red rose with long pointed bud, very free	4.00

CARNATIONS, rooted cuttings, ready May 15th:

	Per 100
The Stuart	$10.00
Uncle John	10.00
Mme. Albertini	6.00
Mrs. Reynolds	5.00
Puritan	1.50
Red Cross	1.50
J. R. Freeman	1.50

CHRYSANTHEMUMS.

Nice young recently struck stock of

	Per 100
Mrs. E. G. Hill	$25.00
E. Dailledouze	40 00
Challenge	40 00
Beau Ideal	40.00
Mrs. J. Geo. Ils	40.00

And for June benching we shall have nearly all the best commercial varieties in young bright stock. Prices low. Send your list for low rates.

GENERAL LIST.

Alyssum, double, $2.00 per 100.

Abutilon SOUV. DE BONNE, one of the finest novelties of the year; leaf distinctly and sharply banded with white, very large orange flower on stems 9 inches long, young plants, $2.00 per dozen.

Aloysia Citriodora, $4 per 100 (fine stock).

Asparagus plumosus, 3-inch, $15 per 100.

Begonia Thurstonii, the most useful Begonia extant, fine for bedding or for ornamental specimen, $4 per 100.

Calla Little Gem, the true dwarf Jersey variety, plants from 5-in. pots, 35c each.

Cissus discolor, ornamental greenhouse climber, 50 cents per dozen.

FUCHSIAS, Novelty, **JUPITER**, strong free growing variety, as grand as **Phenomenal** and freer in bloom; color rosy violet, bright red sepals—$1.50 per dozen.

Mrs. E. G. Hill, $3.00 per 100.

Phenomenal, $4 per 100. All the above is extra nice young growing stock.

FICUS VARIEGATA (Golden variegated Rubber), 4-inch pots, $8.00 per dozen, magnificent plants.

GERANIUM MRS. POLLOCK, 50c. per doz.

HELIOTROPE. We had to refuse many orders for the fine French varieties early in the year; we now have these in bright young stock as follows:

Mme. A. Carriere, $1.50 per doz., bright blue, white eye, immense panicle.

Picciola, $1.50 per doz., rosy violet, white eye, immense panicle.

The above are novelties of 1894.

Mme. A. Dubouche, v'lv'ty violet
Mireille, very light
Countess Mortmarte
} $5.00 per 100

The above are very remarkable for their dwarf habit and the immense panicles of bloom.

LANTANAS, two new dwarf varieties, very low in habit. **F. Givandeau**, pink and orange, bordered bright rose.

Amiel (semi-dwarf), reddish orange, yellow center, $1.20 per dozen.

PETUNIAS, DOUBLE. A fine new strain of strong constitution, beautiful in coloring, very large, nicely assorted. $3 per 100.

Palm Areca lutescens, 3-inch, $7 per 100.

NEW SALVIA, THE PRESIDENT, very dwarf, color extremely bright, an early bloomer, per dozen $2.00.

Worcester, Mass.

Cold weather and a severe snow storm on April 12th, the date of the second exhibition of the Horticultural Society, made it risky to move plants openly and kept the out of town exhibitors away, consequently the number of entries was small and the show a disappointment. Those exhibitors that did brave the weather brought only good stuff and captured all the first and second premiums but thirds and fourths went begging.

The display of cut flowers was excellent and made a brave show; there were six entries in this class of 20 vases and the following premiums were awarded: H. F. A. Lange, first; W. J. Wood, second; F. A. Blake, third; the same awards were also made for the unlimited basket.

Hyacinths were not very numerously represented, there being but two exhibitors, Edward Hale and H. M. Chace, whose displays contained some splendid plants and were awarded first and second respectively. The display of narcissus was very good and comprised good varieties that showed careful culture. H. M. Chace first and H. A. Jones, second premiums. Tulips were conspicuous by their absence and the display of zonal geraniums was not up to the standard.

The next show is scheduled for May 10 and calls for hyacinths and tulips (open culture). Azaleas (mollis), pansies, pelargoniums and cut flowers.

The market is overstocked with first-class stuff and trade is very unsteady; prices only fair.

Early flowering shrubs, fruit trees and bulbous stuff were considerably damaged by a heavy fall of snow on April 11 and 12. SEEDLING.



10427. 75 cts.

New Catalogue (No 4) containing over 1000 Ornamental Cuts for Florists' use, such as envelopes, letter-heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upward. Price of Catalogue 25c. (deducted from $1.00 order).

A. BLANC, ENGRAVER for FLORISTS. Philadelphia, Pa.

Begonias and Palms

BEGONIA Metallica, fine plants, 4-inch, $10.00
" " " 3-inch, 6.00
" De Lesseps, " 4-inch, 10.00
PALMS, well-grown Kentia Fosteriana, 5-inch pots, 30 to 36 inches high, $15.00 per dozen.

BROWN & CANFIELD,
SPRINGFIELD, ILL.
Mention American Florist.

LATANIAS.

For Sale Cheap, 100 very choice Latania borbonica in 10 and 12 inch pots with 8, 10 and 12 leaves, at from $6 to $10 each.

H. F. HALLE,
548 W. Madison Street, CHICAGO.

CHRYSANTHEMUM NIVEUS.

Now ready. From 2-inch Pots, strong plants, price, $1.50 per dozen; $10.00 per hundred.

DAILLEDOUZE BROS., Flatbush, L. I., N. Y.

ENTIRE STOCK OF PLANTS FOR SALE.

The stock of plants of Charles A. Reeser, Florist, Springfield, Ohio, is now offered for sale, in large or small lots as the purchaser may desire.

100,000	ROSES, new and rare sorts, our selection of varieties,	$20.00	per 1000
25,000	GERANIUMS, " " "	20.00	"
25,000	BEGONIAS, " " "	20.00	"
25,000	CHRYSANTHEMUMS " " "	20.00	"
200,000	Miscellaneous Bedding Plants, a choice assortment,	20.00	"

A liberal discount given on large orders. Prices given on any stock desired. Catalogue on application.

ADDRESS **CHARLES A. REESER,**
Springfield, Ohio.

CHRYSANTHEMUMS "THE BEST UP TO DATE"

THROW OUT THOSE OLD TIMERS, AND STOCK UP WITH THE BEST. YOU CAN AFFORD IT AT THESE PRICES.

Plants from 2-inch pots, grown cool, strong and stocky and guaranteed TRUE to name.

Niveus, Pres. W. R. Smith, Mrs. H. F. Spaulding, Ermenilda, J. H. Cliffe, Golden Wedding, Turban, Emily Ladenburg, Miles A. Wheeler, Bryden, Jr., etc. **$6.00 per 100.**

Mabel Simpkins, Dr. H. D. Hull, Mrs. Robt. Craig, Mrs. Jerome Jones, Sec'y Farson, Harry Balsley, Viviand-Morel, Redondo, Alba Venus, Clara Bertermanu, etc. **$4.00 per 100.**

Geo. W. Childs, Edn Prass, C. Krueger, Ivory, Princess of "Mums", Adn Spaulding, Mrs. W. S. Kimball, Roslyn, Lillian Russell, Mrs. Gov. Fifer. **$3.00 per 100.**

Minnie Wanamaker, Wm. H. Lincoln, Kioto, Robt. Bottomly, Hicks Arnold, Emma Hitzeroth, Harry May, W. W. Coles, Mrs. C. D. Avery, Mermaid. **$2.00 per 100.**

1 each above 40 varieties for $1.50. 5 each above 40 varieties for $6.50. 10 each above 40 varieties for $12.00.

SATISFACTION GUARANTEED. CASH WITH ORDER. SEND FOR "MUM" CIRCULAR.

NOTE.—Wanted in exchange, Golden Bedder Coleus, Vincas and other Vase and Basket plants.

H. W. TURNER, Chrysanthemum Specialist, SHARON, PA.

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A Substitute for Glass. Stretch FENSTER PAPPE taut and use batten in nailing on to sash. Then paint the rough surface thoroughly with boiled linseed oil until it shows a gloss. Let it become THOROUGHLY DRY before using, when it is claimed to do service for years. The application of the oil makes FENSTER PAPPE sufficiently translucent for plant life.

IT IS USED as a covering for cold pit sash; excellent for use in palm or fern houses; to grow strawberry plants, early vegetables, tobacco, etc., under. A most handy article as a protection against the direct rays of the sun.

TRY a roll of eight yards as a sample, which will cover about four sash, for $1.00. Original rolls, 36 inches wide, 110 yards long, for $9.00. For further particulars address

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COLEUS, 10 kinds by mail.....60c per 100
" 12 kinds by express..$4.00 per 1000
ALTERNANTHERA P. Major and Aurea Nana, by mail.....50c per 100

CASH WITH ORDER.

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Ready for shipment from July to September.

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Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to $5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

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303 to 312 Wayne St., SAN FRANCISCO, CAL.

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20 CANE STAKES FOR 1 CENT
A foot in length by simply using a sharp saw on a bundle of our best.

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Cycas Leaves, (Sago Palm), **natural prepared,** equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

Immortelles, White and all colors, $2.75 the dozen, natural yellow, $2.00; Cape flowers, best, $1.00 the lb., second size, 60c. the lb.; Wheat Sheaves, Wire Designs, Wire, Foil, Picks, Wax Paper, and all other **Florists Supplies** quoted in our **Illustrated Trade List,** mailed free.

Metal Designs for Decoration Day in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.

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Largest and finest stock in the United States. Write for prices to
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We manufacture the "BATAVIA TREE AND PLANT LABELS." Prices low.
Our **IMPROVED MAILING BOXES,** in five sizes are the favorites with florists and seedsmen. $1.00 per 100 and higher. Sample by mail 4c.
Use the **"BEST TRANSPLANTING BOXES"** and your plants will sell. $2.50 per 100; $20 per 1000. Sample by mail 10c.
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Baskets in all approved forms, celluloid, gold and silver; Jardinieres and Ferneries, Doves, Dried and Artificial Flowers, Wheat Sheaves, Metal Wreaths and Memorial Designs, Letters, Ribbons and Tinfoil.

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in their business, can count as large as dollars and cents gain in these hard times. *Catalogue on application to*

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AND SEEDSMEN

— OF THE —

UNITED STATES AND CANADA,

— AND —

REFERENCE BOOK,
FOR 1894,

IS NOW READY....

Price $2.00.

Some "Poutry."

Only very poor roses, which fall easily apart,
I give those for nothing, by the pint or the quart,
But the fragrant and fresh ones, the best of my roses,
Those you can't get the smell out of (with all your big noses,)
Which are grown by myself, as is home made bread,
And are useful for weddings, for births and for deaths.
You can't get those cheaper than up on Eagle stre-t,
Where I always with pleasure my customers meet.

The above adv. in rhyme I cut out of a Dunkirk, N. Y., paper. The gentleman infers that he also keeps a bakery. If he intends to keep on writing his advs. in "*poutry*" I should recommend him strongly to visit the Quaker City and take a few lessons from the "Bard of Darby Road," whose Byronic style is so charming and yet so easily read, so unlike Browning or Whitening. W. S.

A Remarkable Case.

A letter to the Secretary of the Horticultural Society: "SIR—I particklу wish the Satiety to be called to consider the Case what follows, as I think it mite be maid Transaxtionable in the next Reports.

My Wif had a Tomb Cat that dyd. Being a torture Shell and a Grate favirit, we had Him berried in the Guardian, and for tho sake of inrichment of the Mould I had the carks deposited under the roots of a Gosberry Bush.

(The Frute being up till then of the smooth kind.) But the next Seson's Frute, after the Cat was berried, the Gosberris was all hairy—and more Remarkakle, the Catpilers of the same Bush was All of the same hairy Discription.

I am, sir, your humble servant, THOMAS FROST."—*Exchange.*

Another Specimen.

The following is a literal copy (omitting names) of a letter received by a seedsman a few days ago:

1894

April 22

Dare Sur ittaughte iwolde rite yaus thase fue lines to yaue too lete me naw whine yaure hare of place fare me ihope yaue will not fargete me good by

frame Patrick ———
Dress too Patrick ——

——— —

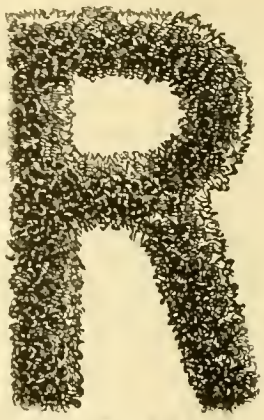


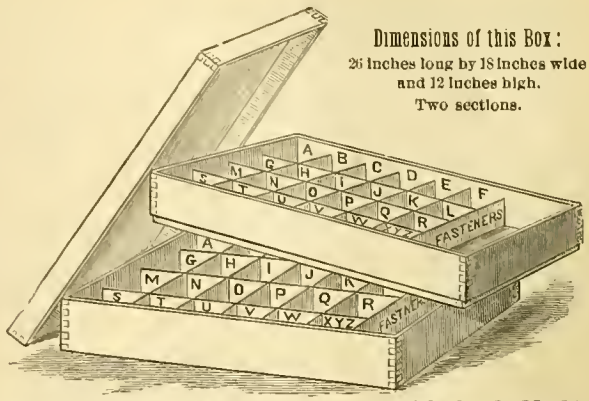
Kills Mildew and Fungus Growth. What does? GRAPE DUST. Sold by Seedsmen.

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CHANDLEE & MAGAULEY,
Atlantic Building, WASHINGTON, D. C.

THE GREAT ANTIPEST.
For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
71 Amity Street, FLUSHING Queens Co., N. Y.

Always mention the American Florist when writing to advertisers.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

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H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
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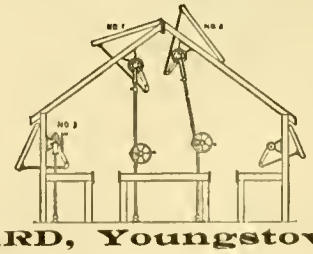
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The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

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NATURAL GAS MADE GLASS,
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Manufacturers of
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Greenhouse Material,
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HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN
DO IT NOW.
JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J

THE DIRECTORY
FOR 1894
IS NOW READY.
PRICE $2.00.

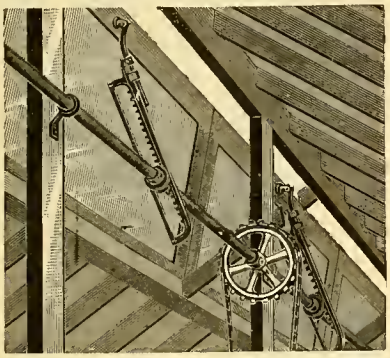
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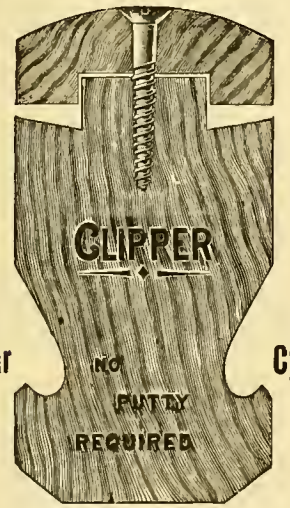
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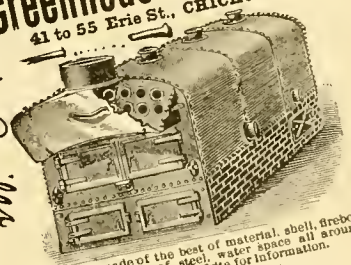
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Hot Water Under Pressure.

In your issue of February 1st your correspondent is evidently laboring under a misapprehension as to what a closed system of hot water heating is. The system he describes is not a closed system at all, but an open system pure and simple, with elevated tank which gives a constant pressure at all times, while the closed or pressure system has an expansion tank of sufficient capacity to retain expansion of water when heated, *closed entirely*, with safety valve, etc., at pressure required, just the same as for steam, the pressure being obtained by heat and *not* by expansion tank being elevated.

As to the merits of this system, so far as our experience goes, its advantage does not lie in economy of either fuel or attendance but in economy of construction, as a system of this kind requires less pipe and a higher initial temperature can be obtained, in fact the same as steam under the same pressure, so that this system can be put in just the same, so far as radiating surface is concerned, as steam, and has the additional advantage of a minimum amount of heat in mild weather, while with steam 212° would be of course the maximum.

If we were advising your correspondent we would say let well enough alone. If his apparatus did not give heat enough then we would say close it providing it was strong enough to stand the pressure, and he would be able to get a higher initial temperature.

As to claims of economy for this system over other properly constructed systems, it has none whatever. Water is a medium through or by which heat is conveyed and it is immaterial whether it is conveyed in a large body of water at a slow circulation and low temperature or in a small body at a high rate of speed and temperature, *the quantity of heat* conveyed is just the same.

From our standpoint we can see no room for a controversy between different systems. They all have their advantages under certain conditions, and these conditions should do all the arguing in the matter of choice of systems.

Hoopeston, Ill. A. L. SHRIVER.

[As the above touched upon technical matters about which exact information from a trained engineer was desirable, we submitted the article together with a copy of the notes that appeared in our issue of Feb. 1, to Mr. Lincoln Pierson of the Lord & Burnham Co., with a request for his opinion as to the correctness of the views expressed in the article. Mr. Pierson replies as follows: "I have looked over the communication which you enclose and believe that your correspondent's views are correct so far as regards the closed tank or "true pressure" system of hot water heating. The method described by Mr. May in his article is not the true pressure system, although by some people it is supposed to be. The true pressure system can only be obtained by means of bottling up the apparatus, or in other words, closing it entirely to the atmosphere."—ED.]

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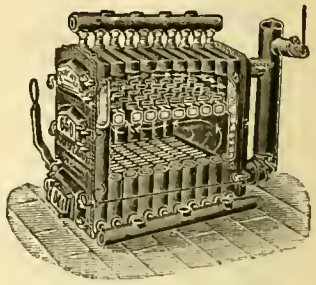
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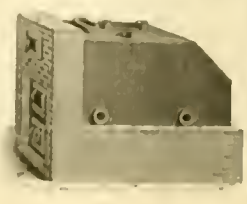
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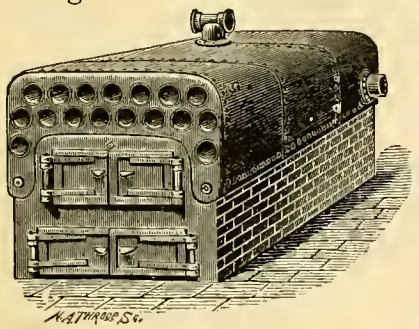
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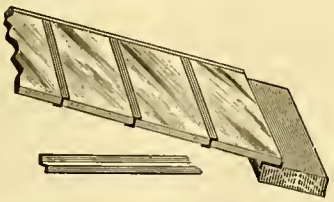
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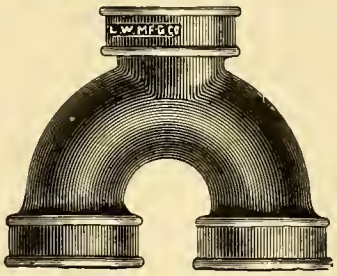
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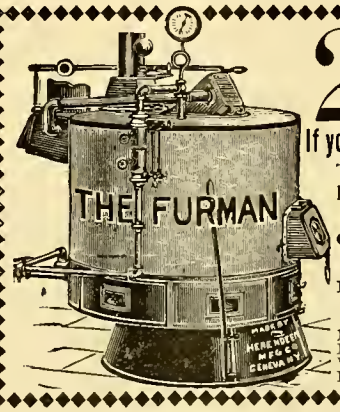
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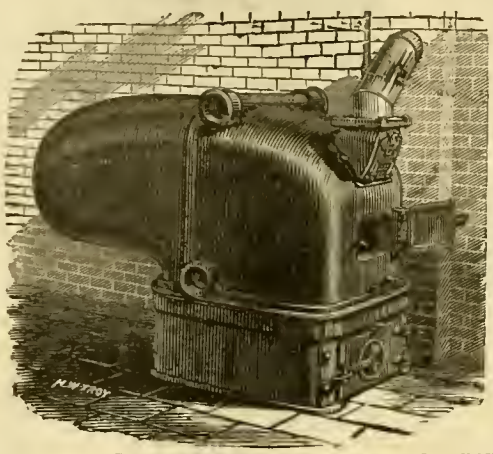
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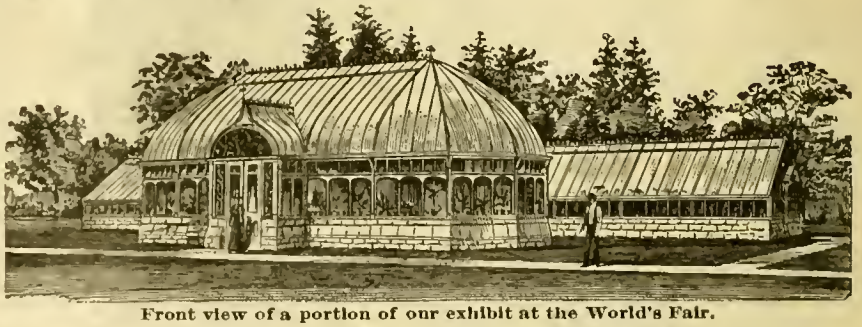
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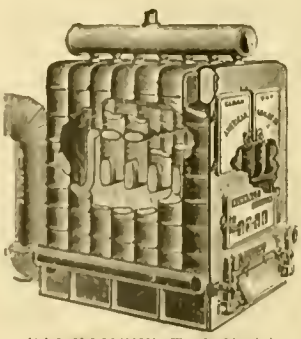
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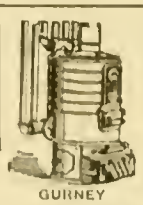
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Vol. IX. **CHICAGO AND NEW YORK, MAY 10, 1894.** **No. 310**

THE AMERICAN FLORIST

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THE AMERICAN FLORIST COMPANY.

322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

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Specialties in the Business.

[A paper read before the Gardeners' and Florists' Club of Boston by William Scott, of Buffalo, N. Y.]

The status of and way in which the florist and nursery business is carried on in the United States cannot be compared with that of Europe, or in other words Europe is no guide for us. Regarding the early history of floriculture in New York it is said that when Andrew Reid purchased a flower for his shoemaker's shop, it attracted the attention of a passer by and he purchased it. Mr. Reid procured another and that finding quickly a buyer, Mr. Reid was led into keeping a store for the express purpose of selling plants. This story (perhaps mythical) is as nearly true as I remember it. But if you doubt it a far more reliable and very modern instance of a man embarking in the flower business exists in one of the largest and best known cities of Ohio. This man, whom you all know, was 17 years ago a letter carrier. His wife kept an ice cream stand in a very small store and properly thought that a few bouquets (so called) would help make her ice cream attractive. Ladies came in to refresh themselves and asked if the bouquets were for sale. They were, and more were secured in their place until the shrewd proprietor saw that it would pay to make a specialty of flowers as well as candy and ice cream. Soon the flower trade outgrew the other and after many changes, always upward, that man to-day owns 80,000 feet of glass and his store in the city is equalled by few in the country and surpassed by none. I am only giving you these instances for the purpose of showing how comparatively modern is the florist business as it exists to-day in America, and if I may be allowed to digress for a few moments I can remind you all that it is within the memory of almost the youngest member here, when stores entirely devoted to flowers did not exist even in the great eastern cities of New York, Boston or Philadelphia. By degrees they grew; one started and then another and to-day florists' stores occupy the most prominent and high priced localities in all our large towns.

The growth of our business surpasses in my opinion all other contemporary industries, and is so remarkable that it has intoxicated with its exuberance many of those who are engaged in it. The remarkable growth of the business which I may call the sale of flowers has been altogether more rapid than can reasonably be attributed to the growth of population. It has surpassed what you expect from that cause more than tenfold. It must be attributed to a higher cause than numbers and that is the vastly increased taste among our wealthy people for something of an artistic and refined nature. They have indulged in flowers to their hearts' content until flowers have become as much a necessity in their houses as pictures and plate. They are a luxury which cannot be dispensed with. The priceless pictures of Raphael or Michael Angelo may adorn their walls but they have become tame in looking at them and it takes a bunch of American Beauty, with nature's sweet odor, to arouse enthusiasm in the over pampered breast. Flowers have come to be universally used in this country and in all the civilized countries of Europe (there are several that are not). In fact there are many occasions in our social life where we cannot do without flowers in whatever sphere of life we are; and this is not a passing fashion.

The brief review I have given of the business is only to impress upon you the magnitude to which it has grown, and to dispel from the hearer any idea that we must be guided by what they are doing in England and Scotland, or more properly the British Isles. They have always been famous for having the finest establishments in the world in a general business, while France, Holland and Belgium have been known to have the greatest places devoted to specialties. Our business here however has nothing to do with whatever they have done because our surroundings and demands and people are as different as highly civilized people on the same globe can be.

Now, gentlemen, I have come down to what I proposed to talk about. In cities of less than fifty thousand perhaps a general business must be carried on to ensure general patronage; but as the vast majority of the floral business is represented in the cities of fifty thousand and over it is to the man who is contributing his products to the large cities that I presume to give a little advice. To the man who is already well started, who grows carnations in the winter, bedding plants in the spring and 'mums in the fall, and who caters to the public the year round for cut flowers and plants, I have little to say, because he has a business that has probably paid him very well and he would sacrifice something to make a radical change. But to the young man who is about to start out with his little capital in the florist business (perhaps mostly for gain and many times largely because he likes it) I say, make a specialty of some particular branch. This has become almost a necessity if the florist wishes to rise above the level of common mediocrity or even get a substantial living.

Now what are the specialties? In a broad sense they can be classed into two great divisions, the grower or producer and the retailer who faces the consumer and extracts from him the money and from whom the money passes down to the grower and his assistants. I shall never forget the wise words of a gentlemen you all know so well, Mr. John Westcott, of Philadelphia, who, when walking up Broad street last November remarked to me that a grower should never keep a

store. To me who was in that fix I thought it strange but with his explanation I entirely agreed. And this was his argument: "If you grow and keep a store you are bound to sell your own stuff first even if it be not A 1; you want to sell that before you buy other flowers. In selling this second-class stuff you will very likely have dissatisfied some of your best customers who demand only the best, while the storekeeper who grows nothing is not bound to buy anything except it be A 1, and can keep up the quality of his goods without much trouble. If one grower does not have the desired quality another will." To quote still another friend, there is indelibly impressed on my memory the remark that was made to me eight or nine years ago in Buffalo by a gentleman whom you all know—Mr. Wm. J. Stewart—that in a few years if I kept a store I should not be growing as well. That sounded to me very strange at the time but nevertheless he was right. Not only are store keeping and growing two entirely different businesses but the grower's business now-a-days can be divided into half a dozen specialties, and that with advantage. When you have only two or three varieties of plants to grow you can bring all your skill to bear in growing them to perfection. You will grow them with relatively less labor, you will get a reputation for that article or class of business and can be depended on to fill orders for the same at all seasons and fill them well. Remarking to a renowned botanist but a few days ago that there was a great study in our plants, he said "yes, there is a study of a lifetime in a single plant." If this is true surely to grow a few species to perfection is enough for anyone to aspire to. It may not be as interesting to the real lover of plants to have to confine his collection to a few popular plants but to be commercially successful it is absolutely necessary that he does not spread himself all over the vegetable kingdom. The ladies in the business I am sorry to say have the greatest weakness for making their greenhouses more like botanical collections than commercial collections in which there are dollars and cents.

Twenty years ago there was scarcely an establishment in the country exclusively devoted to the growing of cut flowers. Now there are hundreds and many of them growing only one kind of flower, and wherever they have devoted their entire energy to one class of plants and religiously adhered to that specialty they have been successful. The rose has taken the time and attention of more men and occupied more glass than any other flower, and wherever an intelligent man has devoted his entire attention to the rose he has invariably been richly rewarded. The carnation occupies now decidedly the second place in the estimation of the public and millions of feet of glass are devoted to producing this most popular flower. Many men have made a specialty of the carnation and have made money by it, giving their whole attention to it and growing the flowers to such perfection that there is always a demand for their quality of goods. I know of men who were very successful with carnations and making money but were not satisfied; they must go into roses and their income has in consequence been much curtailed.

Another man devotes his glass to the forcing of different bulbs. This, the past year or two has been anything but lucrative and if it continues so these men will go into some other department of the business which is at present more profitable. We have firms in the east as well as the west who are making a specialty of smilax; one firm in Ohio grows nothing else the year round and they are very successful in every way. Some growers in the east are "smilax kings," so great and powerful is their sway among the trade. Other men have made an exclusive business of growing adiantums, the favorite maiden hair fern. In the neighborhood of all large cities there is room for many thousands of feet of glass devoted to this indispensable favorite, and if well grown it will yield a rich harvest to the cultivator. It is never overdone and while there is not much profit in a few slug-eaten, picked-to-death plants in a retail greenhouse, there is a rich revenue to the man who grows ten thousand feet of bench room of it and does it well.

There are other men, and very prosperous men, in the business who leave roses, carnations and other flowers alone and who grow what may be called market plants, or fine plants for the stores. They retail nothing but grow large batches of popular plants and do them so well that their products always command the best price. There are others who grow nothing but palms, making a specialty of these beautiful plants and growing them so perfect that their stock is always in demand.

There is in every city of any size a large demand for plants to fill veranda boxes and vases, as well as flower beds. To do justice to these and grow flowers too is almost impossible and they should be carried on in different establishments. There are in this branch of the business a few months in the summer and fall when the houses will be comparatively unoccupied, but there is always something to be found to fill up the short gap. Chrysanthemums can be grown and flowered and out of the way before the bedding plants need much room.

Then there is the purely market grower who has large quantities of the popular cheap plants and disposes of them in the public market. My first venture in the commercial line was in this way and I never made more money in proportion to the size of the place than I did then. I had no retail business to bother me. I grew large quantities of the then popular plants such as geraniums, fuchsias, calceolarias, show pelargoniums and several others. I got my ready money and returned home happy. There is to-day in the neighborhood of every large city plenty of room yet for some first-class market growers.

I believe I have said enough to show you that in my opinion there are many branches of the business, each one sufficient to occupy the time and brains of any intelligent man. I have not nearly covered the ground in which specialists exist; neither do I say but what with a shrewd and careful management occasionally it will be found profitable to occupy your glass for a time with a crop outside your specialty. But as a rule the successful man will be found devoting his time and energy to some particular branch and doing that with all his might.

The education of the young American florist is also more adapted to specialties than to a general business. Most of our older school of gardeners have been graduates of the private gardens or nurseries of Europe, where, rough as the life was, they were supposed to learn every kind of garden operation, from laying sod to tying out a specimen heath. They know how to nail a peach tree to a wall and how to handle a spade, but let the best of that school stand up against the young American at the potting bench and he would not be in it. At the same time our young American who is such an expert with the pots and soil and sticks, is too often a very useless creature when you want him to do something outside. He has never had an education that way, which only shows that in our business as in all other industries we are up to the times and what is known as division of labor exists.

In conclusion, young man, and it is for you I write—find out to what particular branch of the business your taste leads you, then embrace it and work at it with all your strength and intelligence. You will find there is as much compensation in one branch as another. The man who is paying rent for a five thousand dollar store is perhaps making no more clear profit than he who has two houses of violets. Whatever you do, if you are in the vicinity of a large city, don't go into the general business and undertake to supply everything in the trade. If you succeed in pleasing your customers you will be a short lived wonder and as bald headed a victim as your humble servant, whom you can take as a horrible example of that class which has foolishly dabbled in every branch of the business.

[See Boston notes for discussion.]

The Pelargonium as an Easter Plant.

The accompanying engravings are from photographs sent us by Mr. Aug. S. Swanson, St. Paul, Minn. He writes:

"I believe the pelargonium will take a prominent place as an Easter plant. I had about 100 plants in 7-inch pots that were very fine. Each plant was from 4 to 5 feet across the top, from 2½ to 3½ feet in height, and with from 20 to 30 trusses of bloom and from two to three times that number of bud clusters. There seems no great difficulty in having the plants in fine condition for Easter. The varieties I grew were Mme. Thibaut and Mrs. Sandiford, and a curious thing about them is they are intermixed and some plants are half one variety and half the other. I have had several plants of which one-half would have the pink blossoms of Mme. Thibaut while the other half would be pure white.

"The plants were some that had been left over from last summer's sales and they had received rather rough treatment during the winter, being thrown under the bench of a violet house in the fall to make room for other things. They were left there till about the middle of January when they were taken into a light house with hydrangeas. While the hydrangeas were too late for Easter sales the pelargoniums came too early and had to be transferred to a cool house and retarded by maintaining a very low temperature. In my opinion they will make very satisfactory plants for Easter. Their greatest defect is that the flowers don't last as well as one would like in a close and warm atmosphere, as in a living room. They have an exasperating tendency to shed their petals, but their other good points are so numerous that we can overlook this fault.

"The photographs were taken in the store where the plants were displayed for sale at Easter, and as there was a continuous stream of people passing and no space to spare there was no opportunity to place them to advantage. Still probably they give a better idea of the plants than a mere description."

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book.



PELARGONIUM AS GROWN BY MR. SWANSON FOR EASTER SALES

Growing Dutch Bulbs in America, Also Lilacs for Forcing.

The past season has been a most disappointing one to those engaged in the forcing of bulbous stock, particularly as regards tulips and daffs. Although the prices at which imported stock is offered this year is lower than last year, still the figures asked by our friends from Holland are such that when the grower considers the returns from cut blooms realized this past season actual loss must inevitably be the result of an investment in this stock.

We doubt if the tulip ever becomes as popular a cut flower again as it was 4 or 5 years ago, but yet this flower will always have its admirers. Large quantities were sold last season, and probably will be in the future, but fancy prices are a thing of the past. The grower cannot afford to pay from $10 to $20 per thousand for bulbs when the flowers will not sell for any more than the cost of the bulbs.

We have been watching with considerable interest the experiment in bulb growing at the Klehm Nurseries, at Arlington Heights, Ill. Some 3 years ago we had occasion to make mention in these columns of what at that time was entirely the experimental stage in this enterprise. Since that time much progress has been made. It is demonstrated here beyond all doubt that bulbs of various kinds, particularly tulips, daffs, lilies and valley can be grown of good forcing qualities and at a much less cost than the figures asked abroad.

Let us look at the tulips first. At the time of writing, May 2, the earlier varieties, such as Chrysolora, Yellow Prince, La Reine, etc. have gone out of bloom. Tournesol, Thomas Moore, Crown Prince of Austria and many other intermediate sorts are at their best, making a grand show. But most of the plants are not allowed to develop their blooms in order to strengthen the bulbs, yet enough flowers are gathered and sent to the market to nearly cover the cost of growing the bulbs, although the prices realized this year are very low.

The varieties grown are such leading sorts as are desirable for forcing, but all varieties do not succeed equally well. Crimson King, Duc von Thol, red and yellow, are found doing but poorly. These sorts neither make strong bulbs nor multiply fast enough to make growing them profitable. On the other hand Chrysolora, Yellow Prince, Kaiser Kroon, La Reine, Proserpine, Coleur de Cardinal, Tournesol, Thomas Moore, Crown Prince of Austria and others thrive exceedingly well and multiply rapidly. All these sorts have been tried for several seasons and found to force equally as well as imported stock. Besides the above named varieties there are other sorts not classed as forcing varieties, such as Parrot, Gesneriana rectified and yellow. The imported stock of the parrot tulip, as is well known, cannot be depended upon to yield more than 50% of bloom. Here we note that a bed containing some 5,000 bulbs of only medium size shows scarcely 5% blind. It is Mr. Geo. Klehm's opinion that this variety, with home grown stock can be profitably used for late forcing, he having tried it successfully in a small way. The same might be said of Gesneriana.

Now let us look at the cost of growing them. We find this spring between 350,000 and 400,000 bulbs grown on about one-half acre of ground. The soil is a deep, rich, dark and rather heavy clay, altogether different from that found in the bulb growing districts of Holland. The ground is tile drained and has been under high cultivation for a number of years. The value is about $250 per acre which is $125 for the piece devoted to tulips. It takes three years to grow a bulb to a forcing size. This would make $375. At 6% the interest in round figures would be about $24. Take the lowest number, 350,000, grown on this area, the cost per 1000 for the land would be a trifle over 70 cents. The bulbs are taken up and replanted every year. The cost of this is estimated at 50 cents per 1000 each season, for three years therefore $1 50. No cultivation is needed until the leaves have died off. The bulbs are grown in beds about 5 feet wide, quite closely together so that no weeds appear until the tops dry up. After that the ground is hoed over once before the bulbs are taken up about July 1. Cost of cultivation per 1000 for three years 75 cents, making a total cost in round figures of $3 per 1000. But as stated before, the cost of cultivation can be covered by the sale of cut blooms if situated near a flower market. But care must be taken in cutting the flowers, at least one leaf should remain as otherwise the bulb is injured. On the whole not much dependence should be placed on the revenue from this source. It is much better to sacrifice the flower. The blooms may be allowed to remain on the plants until they are nearly gone but should then be whipped off.

The natural increase of the bulbs depends somewhat on the varieties. Some of the most expensive sorts, such as Cottage Maid and Proserpine, which our friends on the other side claim increase but slowly and retain their high figures largely on that account, are found quite prolific here. The average increase of most varieties of fair sized bulbs is 3 to 1. Of the whole number of bulbs grown between 75,000 and 100,000 will be of suitable forcing size next fall.

As before stated the bulbs are taken up about July 1 and cured in an airy shed. Those not required for forcing are replanted between the middle of August and September 10. No mulching of any kind is required to keep them from freezing out. The bulbs are not planted as deep as is the practice abroad, the average depth being about 3 inches.

In daffodils quite a number of varieties are grown but the bulk of the stock consists of Von Sion. Daffs do very well but require somewhat different treatment than do the tulips. For several seasons the bulbs were taken up and replanted every year but no headway could be made with them. As treated now the bulbs are left undisturbed until of a forcing size, the small brood being replanted and left alone for three years, when again the forcing size is sorted out, and thus a rotation of different batches is kept up.

Lily of the valley is grown very successfully. About ¾ of an acre is planted out, these are grown in rows 22 inches apart and ½ inch in the rows. These are cultivated by horse power, or mule power rather. Mr. George Klehm is the happy possessor of a veteran mule that is worth

his weight in gold. A thousand dollars wouldn't tempt George to part with this animal. He is ready to lay a wager of a hogshead of wine (we counted 13 of the latter in the wine vault and can vouch for its being the genuine stuff) that this same mule will travel up and down between rows not more than 6 inches apart and not once step on a plant. Forcings from these pips have been made several seasons with the very best results. Our summer season being warmer than in Europe the pips ripen much earlier and for early forcing particularly the home grown stock is superior to the imported. We couldn't obtain exact figures on the cost of production, but the figures as estimated are far below that of imported stock.

A number of varieties of lilies are also grown with success. L. longiflorum thrives like a weed and multiplies like a mushroom. There are at present about 4,000 plants of this variety in the greenhouses just coming into bloom, being the strongest and most vigorous plants we have ever seen. The bulbs are planted on benches, 8 inches between rows and 6 inches apart, each bulb averaging two stalks with from 2 to 6 blooms to the stem. L. auratum, roseum, rubrum, excelsum also thrive well, all being perfectly hardy, wintering without the least protection.

We note a departure at this establishment in still another field which has never been, at least to our knowledge, much explored before and that is the growing of lilacs for forcing. The call for lilacs is constantly increasing in the winter season, and would increase much more if the flowers could be grown at a lower price than is the case at present. This of course can only be done when the price of stock is lowered. So long as we are using imported stock at $40 to $45 per 100, the flowers cannot be forced with profit at a less rate than is at present charged for them. But if the cost for stock can be reduced one-third and the price of the flowers one half, lilac is destined to become much more popular than it is now. And not alone for cut blooms. Grown in pots it will be found profitable, especially at Easter.

The stock grown here is grafted on California privet, which is done in the winter season. The grafted stock is then packed in flats, kept moderately wet and started to grow in the greenhouse. About the first of May these are planted out in the nursery and in two years make fine plants of the size usually imported. The stock is as easily grown as lilac on its own roots. Not being subject to disease there is no loss except occasionally from the attacks of the grub worm.

The cost of grafting is not very great. A man can easily set from 800 to 1000 a day with a boy to do the waxing and packing away. The cost of privet stock is from $18 to $20 per 1000. The loss from grafts not setting is small. Out of 4,000 grafted last winter not more than 20 have failed. Mr. K. stated that stock can be grown at a good profit to the nurserymen at $15 per 100.

All the stock of hybrid roses used for forcing is grown on the place, all grafted on Manetti. The tap roots of the Manetti are cut up into pieces 2 to 3 inches long, being what are known in nurserymen's parlance as "rat tails." From 5 to 10 pieces of a one Manetti stock are made on to which the different varieties are grafted. In two years strong plants are procured ready to force.

We also note that in the greenhouse department such varieties as La France and Beauty are grafted in the same way. No advantages are claimed for grafted stock over that grown on its own roots but it is found that cuttings taken from these varieties root very poorly, and grafting is found to be surer and quicker work than rooting cuttings.



Carnation Notes.

Presuming that they are all planted in the field there is very little more to say in regard to their culture, but they will still require constant care and attention. If you are growing a general line of stuff other things will be taking up your time but under no circumstances neglect your carnations; if they need topping, top them; if they need hoeing, hoe them.

There should never be any weeds in your patch to hoe out; they should never be allowed to start. A good rule is to work them after every rain; this keeps the ground nice and loose, does not allow the weeds to start and the loose ground acts as a mulch to keep the plants in good growing condition. By going over your patch after every rain the work is not so hard and there is very little more time consumed taking the whole summer together than there would be if you allowed the ground to become hard and the weeds to get a start on you before working them.

There is quite a diversity of opinion as to just the proper time in a carnation plant's growth to top it. Some favor topping them quite young and down to the second or third joint from the ground. This method does unquestionably make a fine looking plant. It has however some serious disadvantages connected with it. In a very heavy rain storm (such as we often get during the summer) it being so close to the ground will be splashed full of mud, which lodging in the joints will stay there and affect the health of the plant. The foliage being so near the ground makes a harbor for all kinds of insects. The same faults follow such plants when planted in the house, and they are like a great many more things, not so good as they are good looking. Topping a plant too soon or too low also affects its root development. All of these things are not immediately noticable but it is well to remember that there is from twelve to fifteen months' work ahead for your plants to do yet and everything possible should be done to keep them in good healthy working shape.

I have always made it a rule to allow my plants to get well started in the field before topping them. We then do not attempt to finish them all at one time but go over the patch, taking out all that are large enough to leave five or six joints to the plant. By leaving this number they are not so likely to break shoots near the ground and the plant is not checked enough to injure its roots. Of course there are exceptions; if we find a plant is not growing up nice and straight on account of being top heavy we take it out farther down, the object being to have for planting in the fall a medium sized plant, nice and straight and stocky. It may be a month before they all get topped this way but it is better than taking them out too soon.

I always attend to this part of the business myself, as it gives one a good opportunity to personally inspect every plant in the patch, and keeps me posted as to the exact condition of my plants and the prospects for next season. It is not an awful jolly job to go over fifty thousand plants, but anyone who expects to make any money out of carnations and has not unlimited capital to start with will have to get down and hustle or be a back number. The price of success in this business is eternal vigilance and an awful lot of good hard brain work and it is becoming more so every year. ALBERT M. HERR.

Chester County Carnation Society.

The regular meeting for May was held in the room of the society May 5, with but few members in attendance, as many were still busy planting out.

A letter was read from F. Dorner & Son, La Fayette, Ind., acknowledging receipt of the gold medal awarded at the meeting of the American Carnation Society for carnation "The Stuart."

The thanks of the society were extended to the American Florist Co. for a copy of the new directory.

The society expressed its appreciation of the notices of our meetings and for timely articles on carnations by the West Chester *Village Record*.

E. Swayne, speaking on planting out, said he was growing plants in trays mainly and when dry the plants were watered over the top, which he thought retained more soil than when roots were dipped.

Pres't Ladley reported young stock of Buttercup in 2¼x3-inch pots at least double the size of plants of same age grown in flats. Sec'y Shelmire grows all his stock in pots and thinks he cannot afford to do otherwise.

From reports made the total plant for this season by members of this society will exceed 750,000.

A number of seedling blooms were shown; several by C. S. Swayne, all on extra long, strong stems; one by E. Swayne, almost pure yellow, had been cut 15 days, a stem 28 inches long, of magnificent proportions; when cut measured 2⅝ inches and to-day measured 3 inches and in excellent marketable condition. These were nearly all seedlings from Cæsar crosses. C.

Carnation Rust.

Look upon the rust just as the rose growers do upon mildew, as an evil that is bound to come and do serious damage if preventive measures are not adopted. A rose grower no longer even dreams of attempting to grow roses without using sulphur in some form to kill the spores of mildew in the atmosphere. He can't see the spores, but he knows they are there. It is now just the same with the carnation rust and similar fungous diseases of the carnation. You can't cure the plants when the rust has once got a hold and you can't detect the presence of the rust until serious damage has been done. But you *can* prevent the spores from germinating on or in the plants by the application of fungicides as a *preventive*. We may set it down as practically useless to attempt to keep carnations free from fungous pests unless preventive measures are adopted and followed up regularly, just as we now use sulphur to *prevent* mildew, and tobacco to *prevent* greenfly. The following mixture will *prevent* rust:

Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gal-



PELARGONIUMS IN MR SWANSON'S STORE AT EASTER.

lon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation. To insure against forgetfulness take your calendar and mark a cross on the dates upon which spraying should be done for the remainder of the year.

This constant spraying will do more than prevent rust; it will prevent other fungous diseases from getting a foothold. And should you accidentally import some rust affected plants the disease will be confined to those plants, for the spores cannot germinate on the sprayed plants if the spraying has been thoroughly and constantly done.

Ridding Carnations of Red Spider.

ED. AM. FLORIST: In your issue of April 26, Mr. A. M. Herr requested some one to suggest a practical remedy for the spider. As I have rid my plants of the pest more than once I take the liberty to advance my plan which is, take clear water, heat to a temperature of 135°, apply with a hand syringe, making sure to get under the foliage; do this 3 days in succession, weather permitting, using the middle of the day for the time of action.

But there is no excuse for having red spider. With us carnations will take all the syringing needed to keep down the pest. I have been growing carnations for 19 years, syringing foliage from bottom to top throughout at least three times a week at this time of year, and in midwinter at least twice a week, first having picked all open flowers, for I admit that the flowers will not stand much, but the foliage will, and if it happens to cloud over close up the houses and start up a little steam until dried off, as I do not like to have them wet over night. I have never had disease of any kind, nor red spider, only in odd corners due to neglect of the waterer. I believe that if all carnation growers would use the hose a little more freely there would be less disease and less spider. If the soil is too heavy to take much water this can be remedied by mixing a fair proportion of sand with it.

Westerly, R. I. H. SIMPSON,
Foreman for S. J. Reuter.

Staking Carnations.

I have noticed in the AMERICAN FLORIST descriptions of various methods of staking carnations, but I think my plan is better than any that have been described. I weave a wire frame as wide as the bench and in sections 6 feet long, with a 6-inch mesh. This is placed over the bench of plants being held at a suitable height by uprights attached firmly to the side of the bench. The uprights are provided with eyes so that the frame can be carefully raised as the plants grow and thereby kept at the most convenient height. The frames will last for years with care and are a great saving in labor over staking, and in time in picking the blooms also. It is often difficult to cut a long stemmed bloom from a plant that has been tied up to a stake without untying the plant and then retying after cutting. J. NORRIS.

Montreal.

Packing and Shipping Cut Flowers.

I would like some information about packing and shipping cut flowers. How long a distance can cut flowers be shipped and arrive in good condition? A. J.

The question is so broad that the answer must necessarily be a general one. In deciding how far flowers can be shipped to arrive in good order, we must take into consideration what the flowers are, how they have been grown, the season, the weather, etc. It may be stated broadly that outdoor grown flowers will not stand as long as those grown under glass. This is especially true of roses, which are of little use twenty-four hours after being cut out of doors. Flowers grown cool and slowly matured will stand more handling and last much longer than those which have been forced under excessive heat, and it need scarcely be added that they will carry farthest in cool weather.

It is the practice of large growers of flowers for market to put the blooms as soon as cut, in a cool dark place for a few hours with the stems well immersed in water so that the pores become well filled; this makes a great difference in their keeping qualities.

But few sorts of flowers will stand wetting of the blooms. Plenty of moisture for the stems and foliage but none for the petals is the rule to be observed. Violets, and sweet peas are ruined at once if wet, and the same is true to a greater or lesser extent of carnations, lilies, mignonette and many other sorts.

In warm weather, also in cold weather if the flowers are to be transported in a warm car, ice should be used to prevent their getting heated but always taking precaution that the ice cannot soak the blooms as it melts, also that it is so confined that it will not when reduced in size by melting slide round in the box and thus do injury.

All kinds of flowers are injured more or less by being packed in deep boxes unless provision is made by the use of slats or shelves to protect those on the bottom from the weight of those on top. Nothing is better than a number of shallow trays or boxes placed on top of each other.

The buyer receiving flowers from a long distance should at once after unpacking them cut an inch or so off the stem and place the flowers in water in a cool place for a short time before using them.

It is well to remember in conclusion that flower buyers are more critical now than they were a few years ago. Flowers were shipped long distances and were acceptable in localities where the local supply was not equal to the demand even though they showed signs of fatigue from the long travel. Flowers which were accepted without question a few years ago in such places would be valueless to-day, as the buyers have been educated up to the point where they will be satisfied only with stock that is not only perfectly fresh, but has also all the other requirements of first-class goods. S.

Snails on Mushrooms.

We have a large bed of mushrooms under a carnation bench but are much troubled with snails that eat the mushrooms. We have used all sorts of things to catch them, have placed lime around the edges, etc., but the trouble continues. How may we get rid of the snails? There is a tile drain running under the greenhouse to carry off surface water from high ground. Could they come from that? It does not open into the greenhouse. L.

Regarding the snails on mushrooms I would state that I have been troubled with them in the same way and under the same conditions as has your correspondent. While the beds were showing a heavy and paying crop I used the usual remedies, such as cut potatoes and apples and in this way got a few of them, but if Mr. Snail came across a fine tender mushroom in his travels he ate the mushroom and didn't seem to be at all anxious to hunt up the potatoes or apples. So I made up my mind to experiment when the beds were nearly spent, and there would be little to lose. I gave the beds a good

liberal sprinkling with slacked lime. Of course it killed the snails. What I was anxious to find out was how it would affect the mushrooms. What were above ground it did not hurt in the least and the beds have produced as many mushrooms since as I expected them to do even if I had not applied the lime. I don't know if any one has ever done this before; I never heard of any one doing it. I intend to test it on some that are showing a heavy crop to see whether it will have any bad effect on the mycelium and will notify you of the result.

Milton, Mass. GEO. M. ANDERSON.



Carrying over La France and Perle.

In reply to the inquiry by "T. K." about carrying over La France and Perle for next season in the benches they are now growing in would say that the best method I have ever found to treat such plants is: When the season for blooming is over this year or, in other words, when the demand for the roses warrants the discontinuance of cutting flowers from them, begin by withholding water slightly from them at first, giving all the air that is possible both night and day, gradually reducing the amount of water till the wood becomes fairly well ripened. This process will take from four to six weeks, then go through the plants, carefully pruning out all the small spurry wood, reducing the longer and strong shoots somewhat but still leaving plenty of green leaves on them to maintain the roots in a live active condition, then scrape off as much of the old soil from the surface as is practicable without destroying too many roots. When this is done mix some good fresh soil and manure, about four parts of soil to one part of manure, fill up the bench as full as it will hold, leveling it all off evenly; first be sure that the soil and manure are thoroughly well incorporated as it would be very much better to take well decomposed manure, not less than nine or ten months old, as green manure is not conducive to free action of the roots at once. When this is done start syringing overhead two or three times a day, gradually moistening the whole soil in the benches, but do not flood them till the eyes have started into active growth. By this time probably it would take from two to three weeks from the time of starting to get them into active growth, then they will take very liberal waterings and should never be allowed to get dry again, that is, not dust dry.

This, in all probability, would bring the season up to the end of September; presuming that you started to rest the plants the first of July it would be the middle to end of August before the pruning and surfacing could be carried out, so that it would make it the end of August virtually. This would mean, by the time the plants get into active growth, the middle or end of September, from this time on they will be in bearing condition and if properly cared for will produce fine heavy crops of flowers.

When the roots have thoroughly filled up the soil liberal applications of liquid will be of great benefit to them, in this latter case be very careful not to make it too strong and an application once in two weeks will be sufficient to carry them through and past the holidays, after that of course according to the strength of the plants so must be regulated the amount of food given to them, such as mulchings of manure, additional amounts of liquid, etc.

To carry old plants over in shallow benches requires a little care and good judgment, and where the soil is naturally good enough to do this they oftentimes will do very well and in fact do as much the second season as for the first, but it requires a little care and great attention and a little more labor. JOHN N. MAY.

Foreign Notes.

Marechal Neil rose blooms have been hawked about London streets this spring at a penny each.

The practice of throwing paper serpentines on trees in the boulevards prevails to such an extent in Paris that the removal of it has cost the city the past year 1700 francs.

A movement is on foot to revive the exhibition of laced florists' and garden pinks in London, and a show is projected for the week of June 11, to be held probably at the Royal Aquarium, Westminster.

A correspondent of the *Journal of Horticulture* complains that the English sparrow has been busying himself in cutting off the cherry blossoms. The blooms are seized by the calyx and plucked so that the whole flower is removed and dropped at once, the ground being covered with the blooms nipped off in the manner described. What has our friend W. R. Smith to say to this?

The London *Garden* says: "It appears that raisers of new cyclamens have really arrived at a stage when to attempt further advance in size of bloom or variety of coloring means a downward step. In a large group we saw lately, purples, magentas, and shades of the same objectionable colors predominated. Nothing is worse than a magenta-shaded cyclamen, especially when the flower gets a little past its best, as it dies off of quite an ashen tone. By striving after novelties of this kind the whole race is likely to become thoroughly spoilt. One only requires a few clear self kinds and in a good strain or selection many fine types may be picked out, rose, crimson, pure white, and others, all beautiful in color and form. Of recent years the Persian cyclamen has been greatly improved, not only in habit or growth, but in the flower itself, this being larger, more massive and borne on a sturdy stem."

A correspondent of the *Journal of Horticulture* writes: "divide pyrethrums and make new beds is the somewhat loose advice given to readers of a provincial newspaper by some amateur correspondent. I should like to know on what experience that advice is based. My own is that no hardy plants divide so badly as do pyrethrums. In the trade nursery, where the work of propagating is performed with considerable success, the rule is to take off young shoots in the spring with pieces of root, if possible, attached; if not done as ordinary cuttings insert them singly into tiny pots, in sandy soil, root them in warmth, and thus increase stock. If the roots be lifted as above advised and be divided there is always the gravest danger that the young shoots will be severed from the roots, and thus can only be propagated as cuttings. Even when successfully divided the plants take a long time ere they get hold of the ground, often suffering much in drought because they are shallow rooted. Amateur gardeners could soon lose their stock in this way."

The Single Pipe System.

ED. AM. FLORIST: Judging from the number of letters of inquiry I have received about this one pipe system of heating there is evidently a great interest manifested in it, and as I cannot spare the time just now to answer all letters, as I should like, I thought a few remarks in your admirable paper would relieve me of considerable work that to me is harder than running greenhouses, and put the matter before the craft in a manner plainer and more comprehensive than replying to individual letters.

If the system has features about it that are better than the old plans of piping, then all ought to know it. There is no patent on it and all can try it. If you feel that a little more heat is needed in some house over head or under the bench tap one of your pipes and run a pipe where you want it, only give it a rise all the way with cap and air cock at the other end, and try it next winter. You don't have to change your whole system to try it, although that is not giving it a fair show like plan enclosed.

In this plan I have tried to make it appear plain so that any one can understand it. There are two ways to run the main flow pipe, up or down from boiler. I have them working both ways. In the up plan it is necessary to provide a drop pipe just after leaving the main to receive the condensed water returning from the small pipes and being connected with a return pipe run to bottom of boiler. If a pipe for over-head is needed put in a tee at any point, or a cross as per plan, at A. I think this up plan the best as it gives us dryer steam, but costs a little more for fittings. In the down plan the main falls from the boiler to its extreme end and is then connected at bottom with return pipe to boiler. All the pipes running from main in this case return their condensed water to main and it is carried along to end of main to return pipe. All pipes to rise from main enough to drain them of all water, and to be capped and air cock put in.

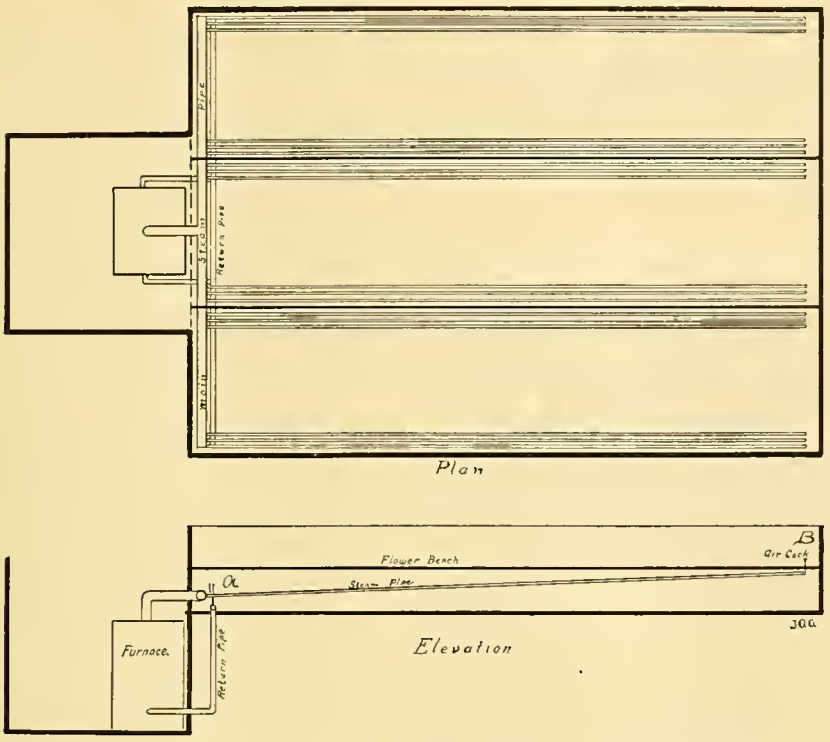
Under benches where it would be awkward to get at them I have small ¾ pieces of pipe to come through the benches with air cock on top, B, leaving space for expansion and contraction of pipe.

Many have inquired about size of pipe. Anything that you can use in any other system you can use in this. I am using lots of old 3-inch that I once used for hot water. Am also using lots of 1-inch. My preference however, if I was going to buy new pipe, would be 1½-inch to 2 inch.

It is understood that this whole system is regulated by the air cocks at end of pipes. If you don't want to use a house or a pipe keep the pipes closed. If you want to use one or two pipes, let the air out and they will soon be giving off heat, while the others along side will be cold. When pipes are in use I keep them open a little all the time. I prefer them to automatic valves as the latter fail to work after a little while. You will notice we have no large brass valves to open or shut or to pay for.

The only trouble with this system is it is so simple that people think it cannot work right, but I assure you after four years trial I have no desire to go back to the old system. THOS. FRANKS.

Champaign, Ill.



THE SINGLE PIPE SYSTEM OF HEATING GREENHOUSES AS USED BY MR. THOS. FRANKS, CHAMPAIGN, ILL

Miscellaneous Seasonable Hints.

As the season comes round some truisms will have to be repeated at the expense of being thought barren of new ideas. Don't let your fires out to save a little coal where you have coleus, cannas, acalypha and many other plants. And if you do let them out in your houses where you have geraniums, fuchsias, heliotrope and that class of stuff then leave plenty of ventilation on day and night. It is not the low temperature that will do harm to these plants, but the damp and unhealthy atmosphere which always occurs without fire heat when the house is shut closely down.

If there is a grain of goodness in overhead heating for rose and carnation houses all sane men must agree with me that for the cultivation of soft wooded plants on benches it is an unmitigated abomination. As I have three houses with the hot water pipes above the benches and a good many more heated in the good old fashioned way I know by dollars and cents whereof I speak.

Don't let your plants get crowded for the next three weeks. It will be the end of May before there will be much decrease in your stock of bedding plants, but there is no excuse for want of room now, even a cold frame now will take care of many plants better than a cold greenhouse, especially bedding geraniums, annuals, feverfew, etc. Stand them over for the last time and give ample room for them to develop their bottom leaves, instead of their turning yellow, and don't let them flower themselves to death before the time you want them to look their best. This is particularly true of the show pelargoniums. They won't stand any continued moisture on either flower or foliage.

It's about time now to fill hanging baskets. I believe in the style of basket used in this city, which is of wire lined with green moss, for reasons explained in my notes of last year, but whatever style you use be sure the soil is very rich. Some coarse bone dust is good; it tells on the end of the journey. The "vines" are the most essential part of a hanging basket. Different localities have different favorites; with us senecio, money vine, variegated glechoma, nasturtium, lobelia, vincas, variegated and green, ivy geranium, sedums, and several others are used. Common as these plants are they have the desired quality of growing and keeping green in the trying ordeal of a windy veranda. For middle plants there is nothing better than a good dwarf geranium, with some achyranthes and compact growing coleus. If the baskets are filled to order ask if they are to be exposed to the full rays of the sun, or in a shady situation, and then fill accordingly; the result will be satisfactory, and will redound to your credit and future business. You will be asked often how to water hanging baskets; tell them to let the hose run onto them or on them until they are thoroughly saturated, or even better, take them off the veranda on to the grass, where a good and sufficient watering can be given, but never let them be immersed in a tub for ten or fifteen minutes in perhaps nearly ice water. They are not aquatics, and will rebel against this treatment by simply giving up the ghost.

Hydrangeas that were not forced for Easter will soon be coming on in good style. They will sell better about the end of this month than at any other time. It will pay you to select a number of the best plants and put into 8, 9, or 10-inch pots. You will get a much advanced price over those starved in smaller pots, and will be far more satisfactory to the purchaser, who generally buys them for a plant to stand on the stoop or veranda. Hydrangeas are the grossest of all feeders, and should have a rich soil and solid potting.

Don't fret about your carnations being planted out until the 15th of this month. There is no time lost. Great big plants are not desired; a medium sized, healthy plant, is all you desire. Remember I am only referring to the florists of this latitude, but the same advice will extend over a considerable latitude.

Don't neglect, before you sell out all your stock, to plant out sufficient for your own use. You ought to have the best and healthiest of all if you wish to perpetuate a good vigorous stock of all kinds of bedding plants. Philosophers tell us there is no real reason why a plant should not be just as vigorous propagated from a cutting for many years as from a seed. There is no time or place to enter into that discussion in these notes, but depend upon it, in common practice they are wrong; and it behooves you to select only the very healthiest individuals of a variety or species if you wish to have that species with you in a healthy state. Propagation by cutting or layers is merely a multiplication of the individual. Seed alone can produce a true separate individual by nature's way.

A Subscriber want to know how to rid coleus of mealy bug. At this time of year, when they will soon be all planted out, good advice would be to get rid of all the mealy bug stock, and in the fall procure cuttings of absolutely clean plants, but if that is not practicable, you can with skillful syringing (while watering) rid them of mealy bug. They can't put up with a good cold bath applied with some force from a hose. An emulsion of kerosene is death to them, but coleus is very soft, and the danger is you can hurt them while you are killing the bugs. A quarter of a pint of kerosene in a pint of milk thoroughly stirred for a quarter of an hour and then added to 3 gallons of water is a cure for this pest. On cycads and palms you can use this without any fear of injury, but coleus are very soft.

The same Subscriber asks how he can hold chrysanthemums in 4-inch pots. There is no way of "holding" them; they must be shifted into larger pots, planted out on the benches, or the tops taken off and rooted, and the old plants thrown away. This is a good time to plant on benches in the best of soil, those flowers that you want extra fine results from. For the main crop of flowers wait another six weeks before planting, and for the ideal market plant the first of June is plenty of time to plant in on the benches. There is a broad rule which will stand good in chrysanthemum culture, which is, don't let them get "hard wooded;" keep them growing, and if you can't do this take off the cutting and throw the old plant away.

W. S.

The One Judge System.

Mr. Stewart is a little sarcastic—unnecessarily so it seems to me—in answering my simple request for an explanation as to how this system was un-American, and he has after all devoted very few words to the gist of the question. His letter clearly shows that he has given the subject very superficial consideration and that he is simply defending an assertion made at random. Perhaps this is hardly a suitable place to enter into an argument to prove that the one judge system is in perfect accord with the American constitution, but I should be quite willing to try and enlighten Mr. Stewart through private correspondence if he—a Bostonian—is not above receiving light from a simple Canadian.

Mr. Stewart is giving Toronto too much honor when he calls the one judge system the "Toronto plan." If he will turn up the AMERICAN FLORIST of October

29, page 268, he will find there a letter from Mr. W. T. Bell, of Franklin, Pa., strongly advocating this very system and stating that the secretary of a society in that state had told him, "We adopted the one judge plan several years ago and find it far superior to the three or more plan." It seems almost superfluous to say that the system originated neither with this society nor at Toronto.

I have a very strong impression that a *large* proportion of those interested in exhibitions in America had adopted the "Toronto plan" before Mr. Bell's letter was written or have done so since.

To come down to plain, practical experience—an ounce of it is worth a ton of simple assertions supported only by sarcastic inuendoes—I say that the one judge system has proved itself over and over again to be more satisfactory to exhibitors. It is all very well in theory to say that the wisdom of three men must be greater than the wisdom of one, but unfortunately for this theory—as in the case of many others—it is not a necessary sequence in practice that the judgment of three men is any better nor indeed always as good as the judgment of one. And in the case of "duffers" (by which term I mean men who do not thoroughly understand the work in hand; I should have remembered that it is not customary in Boston society to use slang words) the ignorance of two men will over-rule the wisdom of one, and the ignorance of one will often result in a compromise—not a correct judgment.

I admit that the responsibility of the one judge is great and it is necessary that he be a thorough expert, but thanks to the great advance horticulture has made lately there are now plenty of good men to be obtained who are willing to "face the music" (more horrid slang) in the interests of horticulture. A thorough expert will not be afraid to assume the responsibility, but it will be better for his own interests not to judge in his own city.

Of course in the one judge system it is not essential that the same man should judge everything in the show, there may be one for plants, one for cut flowers and another for designs, or one for every class for the matter of that, but it is essential that every *section* should be judged by one man.

I don't wish it to be understood that I am defending the World's Fair system of judging, which was a complicated combination of the one judge system and some other system which it is doubtful if John Boyd Thacher himself understood. From all I have been able to gather the exhibitors would have been better satisfied if the latter part of the combination had been left out altogether. I think that the exhibitors in the classes judged by Mr. Nicholson, of Kew Gardens, will agree that no three judges could have given better judgments than he did, but were the awards given according to his judgments? I have had very little information on this point and am not hinting at any crooked work, but I say that if the one judge system had been adopted—in the Floricultural Department at least—at the World's Fair exhibitors would have been better pleased with the results.

Mr. Stewart says in his essay that this is a subject which all the Florists' Clubs and Horticultural Societies should seriously consider. I am of opinion that most if not all the clubs and societies have already done so and that after such consideration the large majority of them have arrived at the conclusion that one judge gives more satisfaction to exhibitors generally than three. At any rate until much more potent arguments than Mr. Stewart has advanced the clubs and societies may rest happy in the belief that the one judge system properly carried out is *not* un-American in principle, whatever other faults it may possess.

A. H. EWING.

Toronto, May 5, 1894.

Boston.

At the May meeting of the Gardeners' and Florists' Club the announcement that Mr. Wm. Scott of Buffalo would read a paper before the club brought out a large attendance, many of those present being personally acquainted with the essayist and all knowing him well through his instructive notes in the AMERICAN FLORIST.

The routine business having been disposed of, President Welch introduced Mr. Scott, who was accorded a most flattering reception, and after a few introductory words proceeded to read his paper on "Specialties in the Business," which we present in full in another column. The subject was calculated to excite considerable discussion on the various points touched, and the announcement by the President after the close of the lecture that the essayist would now be pleased to answer any questions which might be propounded to him was the signal for a regular battery of conundrums which kept Mr. Scott busy for the next hour and occasioned some pretty lively talking from the floor.

Mr. M. H. Norton started the ball by asking Mr. Scott whether he believed it right for wholesale dealers to supply retail orders, a subject upon which Mr. Norton has had a grievance for lo, these many years. Mr. Scott said that they had only one wholesaler in Buffalo but that if they found him touching retail business they would barricade his door and turn him out of the town. This reply apparently gave extreme satisfaction to Mr. Norton and his sympathizers, but a counter suggestion by a member on the floor as to the just deserts of a retailer who would seek to do wholesale trade or who ignoring the wholesaler should secure supplies from private gardeners, apparently frightened the hen off the nest and the matter was dropped abruptly.

Mr. Warren Ewell then asked Mr. Scott's opinion regarding the sale of plants at auction. Mr. Scott replied that he had been once of the opinion that the auction business was deleterious to the trade at large but he had changed his opinion and now believes this to be a useful medium for the disposition of stock and one that should be upheld. Mr. Winfried Rolker who was present agreed with the speaker and advocated the auction as the best means for the disposition of fall bulbs. He believed that it would be well if this method should take the place of the present system of soliciting advance orders in spring, provided high grade bulbs were thus handled and an effort made to disabuse buyers of the impression now existing that the auction is only used to unload over-stocked or inferior goods.

Jackson Dawson took exception to the views expressed by the essayist on the subject of specialties and inquired where the all-round gardeners would come from to produce the elegant plants found in fine private collections if all the young men were to confine their efforts to the mastery of a single specialty. To which Mr. Scott responded that there is not one private place in Buffalo extensive enough to employ one first-class gardener, and Sam. Coleman with characteristic bluntness remarked that the best inducement offered to a young private gardener to-day is that he may hope to earn coachman's wages.

Mr. Dawson next sprung the question as to the wisdom of the importation of plants that can be grown in this country and incidentally referred to the injury done to the trade by the selling of imported stock such as budded roses, etc., by the dry goods houses at starvation prices. The general opinion on this subject seemed to be that there is in this country every requisite of climate, soil, etc., for the production of all plants and bulbs needed by the American trade but that the great drawback in American competition with the foreign producer lies in the cost of labor.

A motion offered by Mr. Hatch thanking Mr. Scott "for his patience and kindness in listening to all they had got to say" was adopted. The American Florist Co. was also thanked for the gift of a copy of the Directory of florists, nurserymen and seedsmen.

Resolutions of respect to the memory of the late M. A. Hunt and extending the sympathy of the club to his bereaved family were unanimously adopted. In accordance with the new program the club will not meet again until September.

The pansies at D. Zirngiebel's are well worth a visit this spring. They are finer, if possible, than ever before. Each season seems to develop brighter colors and new combinations. Mr. Zirngiebel buys the finest seed he can procure, constantly, and if anything superior is found in them the new blood is introduced into his stock, and this together with incessant care is the secret of his success. The extra fancy strains are so finely bred, however, that anyone buying them for bedding out purposes will be disappointed in the results. They must have protection from wind and weather, but they fully repay any care that can possibly be bestowed upon them.

The cut flower trade has been about as dull as it could be since May came in. All kinds of stock are very plentiful. Outdoor flowers are considerably ahead of the average blooming time and it will take some steady cold weather to hold back the usual Decoration Day reliables for that occasion.

The Public Garden is gay with hyacinths, tulips and narcissi and pansies, daisies and myosotis are now at their best. The slopes of the Back Bay Fens are bright with wild violets and ground phloxes and great masses of forsythias and spiræas make a glorious show.

A sad accident occurred on Saturday at the residence of Prof. Watson at the Bussey Institute whereby a girl of 19, employed as a domestic, lost her life. Her clothing took fire from a match while she was lighting the gas and she was fatally burned before help reached her.

J. C. Hovey, the seedsman, well known as the son of the late P. Brown Hovey, of the old firm of Hovey & Co., died on May 1 after a long illness. He was a member of the Mass. Horticultural Society and has served on several of its important committees.

Visiting Boston: J. A. Fraser, representing Wm. Hagemann, Philadelphia; S. Skidelski, for E. Kaufmann, Phila.; H. S. Van Waverin, for Segers Bros., Holland; Wm. Scott, Buffalo; O. J. Dorn, Syracuse; Winfried Rolker, New York; Burt Eddy, Chicago.

The May exhibition of the Massachusetts Horticultural Society was held in their hall Saturday, May 5th, and brought out a very beautiful display of plants and

flowers. Calceolarias were shown by John L. Gardner, D. F. Roy, gardener to E. S. Converse, and W. F. Gregory. The plants were very fine, the former capturing the first prize for the best six plants and Mr. Roy first for specimen. Messrs. Norton Bros. showed two large handsome plants of Hydrangea Otaksa and a beautiful plant of Dendrobium thyrsiflorum. Tulips and narcissus were exhibited by John L. Gardner, R. & J. Farquhar & Co. and Bussey Institution and the latter also made a fine display of ixias and flowering shrubs. John L. Gardener also made a display of stove and greenhouse plants containing three very fine ericas, Cavendishi, tincta alba, and magnifica. Denys Zirnigiebel and Joseph S. Fay made displays of pansies, the former taking both first and second premiums.

The collections of wild flowers made by George H. Grinnell, Mrs. P. D. Richards, Eleanor and Mollie Doran, and Mary E. Loud, contained many rare specimens and attracted a great deal of attention, as did the displays of cut flowers shown by Francis Brown Hayes, Mrs. E. M. Gill and Mrs. A. D. Wood. Two beautiful vases of carnations Nicholson and Ada Byron were shown by Wm. Nicholson. Jackson Dawson exhibited two new beautiful shrubs, Prunus spinosus fl. pl. and Spiræa angusta which were awarded first-class certificates of merit. The latter is a valuable acquisition, very early, perfectly hardy and superior in foliage and flower to Spiræa Thunbergii.

Andy.

Anybody at all familiar with Horticultural Hall in Boston knows Andy, who has been a faithful and obliging attendant there for the past twenty years and has made himself as indispensable almost as the building itself. Andy's full name is Anthony Riley. He was born a slave on the plantation of Robert E. Lee, in Virginia. It is quite interesting and amusing as well to hear him relate how when in camp with General Lee in 1862 he sloped off at night with one of the General's best horses and made tracks for the Union Army. Andy lacks but a few months of being sixty years old although he does not look it. He is brim full of fun and a great favorite with the boys, for whom he is always ready to go any length to do a service.

Philadelphia.

The first auction sale of the big four, Messrs. Harris, Craig, Burton and Lonsdale, will be held at August Rolker & Sons' rooms in New York the coming week. The stock to be offered is first-class in every respect, and no doubt the returns will be found very satisfactory. These gentlemen have established a reputation by the excellent stock sent to previous sales that always insures them a good class of bidders, willing to pay remunerative prices.

Those who make a specialty of bedding plants are now very busy; their houses are full of spring stock which is in most cases in perfect condition. Jacob Becker of 53d and Market has a very fine stock of pot roses, all marketable and in very fine condition. All the roses that are forced for cut flowers during the early fall and winter are potted up about the middle of January and after being kept cool for a month or so are then given more heat and when the time for planting arrives they are in fine condition and better than dormant stock of the same kind potted up in the fall. His stock this season consisted of over 25,000 plants in 5 to 7-inch pots. Prices for this stock run from $3 to $6 per dozen. Geo. Uber of 55th, near Woodland avenue, is very strong in geraniums and his 6-inch stock is the best we have ever seen. They are a good size, carrying from 3 to 6 large flowers and a lot of buds. Most of the geraniums for this market are grown in 4-inch pots and sell for from $7 to $8 per hundred. Some of the smaller growers sell their own product four for a quarter.



"ANDY," MAJOR DOMO OF HORTICULTURAL HALL, BOSTON.

We imagine it would take a magnifying glass to find the profits.

About 15 years ago the first organization of the trade grew out of an effort of the growers to fix the wholesale price of 4-inch pot geraniums at $10 per hundred. They could not be grown for less, at least this was the opinion at that time, and we believe that there has never been a meeting so numerously attended by members of the trade in this city before or since. It was an honest effort to establish a small margin of profit on a very staple plant, but it failed, and for years $8 per hundred has been the price. Those grown in 5-inch pots bring $10 to $12 per hundred, and 6-inch stock sells for from $16 to $20. Verbenas, petunias and all small flowering bedding plants bring from $3.50 to $4 per hundred, and the same may be said to be the price for coleus, alternanthera and all such plants for carpet work, although the latter class have been sold out of 2 or 2½-inch pots as low as $2.50 to $3 by the thousand lots. Griffen Brothers of Frankford have a very fine lot of bedding plants and one of the best in variety. The retail store men do not do much in plants, as at the very small margin the street dealers seem to be willing to take there is little or no profit when those that go to waste are counted up.

The cut flower business is falling off very rapidly, last week being remarkably dull. Prices of flowers have dropped in consequence and stock of almost all kinds can be had in quantity at the buyer's price. Outside valley is now in and while it lasts the price of this flower will be low. Sweet peas are very abundant and carnations can be bought for $5 or even less per thousand, the fancies being $2.

The fakirs have had a busy week, giving a goodly portion of their stands and baskets to lilac, which has been both plentiful and fine. Violets, both cultivated and native, are done.

The smaller tea roses are now to be had for from $1.50 to $3 per hundred, the larger stock, such as La France, Mermet, Bride, etc., bringing $3 to $5. All large quantity lots go at from one-half to two-thirds less. Beauties are fine and the best sell for $3; Jacqs, $12 to $15.

The last meeting of the Florists' Club was well attended and all listened with great interest to Mr. J. Westcott's remarks on how best to entertain the visitors next summer. There is one thing certain—that anyone who attends the convention will be made to feel glad he came. If half of the good things materialize that are promised for the meeting at Atlantic City next August, those who stay at home will never forgive themselves.

Appropriate resolutions were adopted on the death of Mr. M. A. Hunt, whose untimely death called forth deep expressions of sorrow and sympathy for his family:

There is a plan on foot to enlarge the membership of the club by having an associate membership composed of others than those engaged in the trade. Quite a number of persons have applied for admission who were refused on account of a clause in the constitution which says that members must be closely identified with the business, must either be florists or dealers in florists' supplies. The new members are to enjoy all the privileges of the club room, but are to have no voice in the management. K.

New York.

There is an excessive supply of flowers and trade continues very dull. Roses are still overstocked but there are indications that the supply will soon decrease, and much of the stock shows the weakening effect of the hot weather. A few good ones bring a fair price but the balance has to be sold very cheap by the thousand. Jacqs when good are in fair demand but large hybrids and American Beauty sell poorly.

Carnations are very plentiful. White and the extra fancy varieties are the only kinds for which there is any call. Sweet peas, with the exception of the white ones, are getting plentiful and the prices are down. For novelties there are a few corn flowers and white and purple campanulas coming in which sell well because they are few. Some splendid Cattleya Mossiæ and Lælia purpurata are to be had. These come from Julius Foehrs.

Wagon loads of outdoor lilac, Narcissus poeticus and lily of the valley are coming in every morning and these with apple blossoms and other outdoor bloom serve to make the florists' windows attractive with but small expense. Violets, tulips and daffodils have come to the end of their engagement and will appear no more until next fall.

Many of the clerks in the wholesale places where many roses are handled have taken to wearing kid gloves at their

work. This is not an indication of any new development of dudeism but is done as a precaution against sore fingers. There appears to be an unusual amount of that trouble this spring, resulting from thorn pricks and aggravated as many believe by some of the preparations used on the plants by the growers as fertilizers or insecticides.

There have been numerous recent changes of business locations. F. D. Hunter has moved across 30th street and his address will hereafter be No. 55. Millang Bros. have given up their store on 28th street and will henceforth make their headquarters at the 34th street flower market, where they have fitted up a fine establishment with large refrigerators and other conveniences, and the rooms will hereafter be open all day. It is understood that H. W. Baylis will soon move from his Broadway location to the store on 28th street vacated by Millang Bros. Mr. Dick Young has given up his venture on Sixth avenue and his smiling countenance may now be seen as of yore at the 30th street establishment of his brother John.

But the most notable business change has been the abandonment by "George the Greek" of his Broadway store. He found that something besides a mere store on Broadway is necessary to catch the fashionable trade of the tenderloin district, and that street fakir methods are not acceptable outside of certain neighborhoods. Much solicitude was expressed by thinking people at the time of Mr. Preamus' bold break lest it might be the entering wedge which would in time injuriously effect and break down the dignity and standing of the florist business, and it is with much satisfaction that they see the dangerous attempt abandoned.

Ernst Asmus was taken with a severe attack of fishing rod fever last week. On his return from the trout brooks of Dutchess county he will doubtless be feeling much better.

I. Forsterman has been in poor health this spring and contemplates a trip to Europe in a short time.

The C. F. Wenderoth, formerly of Avenue C, mentioned in our last issue, is in no way related to Fred B. Wenderoth, with Ed. Jansen.

Buffalo.

Your correspondent has been away in the beautiful city of Boston this past week and has scarcely had time to ask the fraternity what they are doing. There are no big parties or high toned weddings going, of that I am sure, and business can be called only fair. Outside flowers begin to cut a prominent figure in the stores and market. Roses are beginning to show the usual decrease in size and the carnations are plentiful but not as good in quality as they were two months ago. Good violets are still coming in plentifully from Corfu and other villages in Genesee county.

Plant trade seems to be opening up early this year and the uninformed are ready to buy geraniums and other tender plants for their garden until warned by the conscientious Buffalo florist that "it is not yet safe for a week or two."

The Buffalo Park flower gardening will I hear be a great improvement on former years. They have had plenty of time and plenty of stock to get up a good collection and this year perhaps the flower beds will compare favorably with those of other cities. Flower gardening, while perhaps not an absolute necessity in a public park like ours, is almost an essential, especially to please a class of citizens who compose the great majority of our people, and whose limited education does not allow them to see as much beauty in a well assorted group of flowering shrubs as in a bed of scarlet geraniums. It is just as proper to cater to this large innocent class as it is to be produce features which can only be enjoyed by the favored few whose fast nag speeding on beautiful driveways allows them to see the whole park system in a day. If artistic flower gardening is attempted in our parks on any scale it should be well done or entirely left alone or it is only a reproach to the management. Ragged beds of marigolds, zinnias and other annuals are hardly good enough to satisfy even the uneducated taste. The park greenhouses, situated at West Seneca close to the city line, are well taken care of by Mr. Simpson, who is a thorough all round gardener.

The Botanic Garden is now an assured fact and while road making and other heavy work will be pushed to completion a good deal will be done before fall toward getting the garden under way. A large collection cannot be got together in a day but this is the beginning of what some day may be one of Buffalo's best known institutions. It will gratify all his many friends here, as well as the hundreds in the profession in other parts of the country, to know that Professor John F. Cowell has received the appointment of superintendent or director of the Botanic Garden. It would have been impossible to find a more suitable man for the place even if the continent had been searched. Mr. Cowell is a thorough botanist and has the advantage of an early horticultural training in New England. His knowledge is not confined to hardy trees or shrubs, neither is it limited to florists' flowers or aquatics or grasses or orchids or palms. He loves and knows them all.

Among the visitors this past week was that very lively young man Mr. J. Blaauw, of Boskoop. He jumps round you so lively that the first thing you know he has a good sized order.

I have just parted with a gentleman from Bristol, England, Mr. J. Henshaw, a brother of the well known Samuel Henshaw. Mr. H. is making a flying visit through the county and seems impressed with its size if nothing else. He had yet to see the Falls and *Chicago*.

I should be ungrateful were I not to acknowledge the great hospitality extended to me by half a dozen of the shining lights of Boston last week. It is truly the hub in many ways. I did not taste a bean there, but I had been there before. Talk about a park system. When that gets completed our other big cities will have to get a big move on them or they will be very much in the rear. The display of tulips and other bulbous flowers in the public gardens is beyond belief and the first cost of them would beggar the entire park fund of some smaller cities.

At the regular meeting of the Buffalo Florists' Club resolutions were adopted expressing great sorrow by the members on the death of Mr. Myron A. Hunt. Many members that knew him personally spoke most feelingly, and considered his death a national loss. W. S.

CINCINNATI.—On May 5 the new mayor was installed in office and the floral designs presented by his many friends made trade brisk for a while. The retiring mayor was also bountifully remembered which was equally acceptable to the florists.

Chicago.

Last Saturday Governor Altgeld issued an order removing President Waller of the Board of Commissioners of Lincoln Park. The order, which was printed in full by the daily press, was a long, windy document, in line with the Governor's previous effusions of the same sort. If any evidence were needed of his entire ignorance of park affairs this letter would be more than sufficient. He again announces his intention to force the appointment to the superintendency of an engineer rather than a horticulturist. As soon as he has appointed a successor to Mr. Waller (he has already appointed the successors of Messrs. Heuer and Kirk) the board will of course reorganize and as each new appointee has undoubtedly accepted under pledge to carry out the governor's ideas, one of its first actions will of course be the appointment of an "engineer" as superintendent. That this party will be a "political engineer," as one of the dailies puts it, there can be little doubt. The power of the governor is absolute under the law and there seems to be no hope for the park until his term of office expires two years hence. He has also got the affairs of the West Park Board into a similar unpleasant condition. The South Park Commissioners fortunately cannot be interfered with as they are appointed by the judges of the superior court, and not by the governor.

The market last week didn't show much improvement. Although the glut of stock was not quite so great, prices showed little improvement. Assorted roses in quantities still went as low as $15 per 1000, but selected grades were a little more settled. Meteor and La France brought $3, Mermets, Brides, Perles, Duchess and Wootton's $2. A few fine Testouts are sent in, selling at $5 to $6.

Beauties have the field again to themselves in the larger class of roses, hybrids being all cut out; the latter, however, seemed to have but little affect on the market at any time. The popularity of the Beauty has carried it through the entire season without a break in prices. First-class, long stemmed stock still brings from $2.50 to $3 per dozen.

Carnations have stiffened up again, good commons selling at 75 cents; disbudded, extra fine, selling at from $1 to $1.50; and fancy sorts going as high as $2.50. Some very fine Buttercups are noted at present. Daybreak is still good, but somewhat paler in color. Outdoor grown valley is coming in in large quantities but sells very slow at $1. There is little or no demand for outdoor grown tulips, daffs, narcissus, etc. Even Parrot tulips, which have always been great favorites with flower buyers, find little demand.

Retail men report a very quiet business.

M. Enders, of Havelock, had an urgent call to leave the city. Numerous creditors who hold unsettled accounts against Mr. Enders to the amount of $3,500 would like know his whereabouts.

Mr. P. Koster, of Koster & Co., Boskoop, Holland, was a recent visitor.

Baltimore.

The cut flower trade is decreasing daily, but the sales of plants are increasing in inverse proportion and the poor florist man still manages to keep his head above water in spite of the fact that an armful of lilacs can be bought in market for five cents, that almost every drug and dry goods store has its box of flower seed, and some their plant counter also, and

by no means least the fact that here and there a wealthy amateur puts his surplus bloom on the market when it becomes plenty "just to keep it from going to waste, you know." If "There's a sweet little cherub that sits up aloft to keep watch for the life of poor Jack" there must surely be another to care for the dealer and worker in the houses of glass, else why do things turn out so fortunately? The hardest times occur during the mildest winter; the dull season is when expenses are lightest; the amateur competitor appears when the season is nearly over; and so on through the list.

The season is well advanced here; some little bedding out, mostly of geraniums, is being done, and most shade trees are in full leaf.

A walk through the establishment of one of our pioneer florists, Mr. Jas. Pentland, recently proved that there is still a camellia man in the trade, for the hundreds, yes thousands of camellias at his place embrace apparently every desirable variety known, and though the season is practically over yet enough bloom was to be seen here and there to call forth interesting talks from Mr. P. as he passed along. The stock of roses and miscellaneous plants was in fine condition, but the camellias predominated.

Now comes the time for the club members to experiment with red spider. There has been some sharp debates on the little vagabond and once or twice the red insect was about as provocative of belligerency as a red flag is popularly supposed to be. One member at a recent meeting said: "I believe they are scavengers and feed on excrement from the leaves. No plant in perfect health will have them. They only appear when the pores of the leaves have been closed, and the work they do is to remove the dirt, or, if the plant is in a condition to become very sick, defoliate it, and give it a period of rest in which to recuperate." It is needless to say that such a radical view drew the fire of several critics instanter, and a most interesting and amusing debate followed, in the course of which it appeared that spider had been seen by members out of doors on such vigorous subjects as tree box and large lindens, with no apparent excuse for their presence except dry weather and near by greenhouses.

Mr. M. A. Hantske has left the store, 1614 N. Charles street.

Roses are very plentiful and cheap, but off in quality. Valley and all outside stuff is in more or less of a glut. Sweet peas plentiful at one and a half cents.

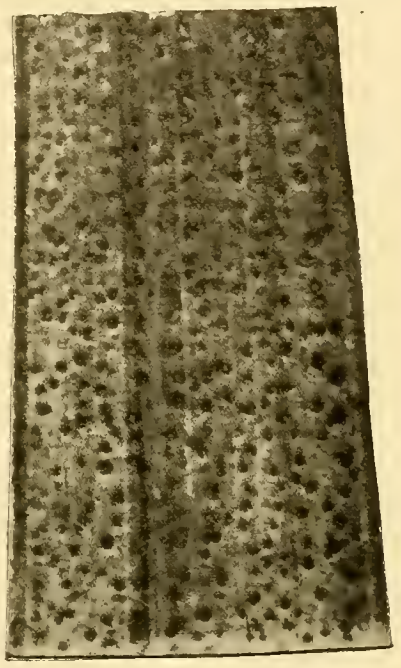
MACK.

A Palm Leaf Blight.

Specimens of a palm leaf disease have been received from a large grower of ornamental plants with the statement that much damage was being done to his stock. The leaves and particularly the upper portions lose their green color and take on a gray appearance soon to be followed by small dark pimples. These pimples are quite evenly distributed and bear innumerable spores. A photograph was taken of a portion of one of these leaves at the same time enlarging the parts six times. The accompanying engraving made from the photograph therefore shows the leaf and the pimples upon it equally magnified. By means of this an idea is obtained of the great number of the spore-bearing spots, and their quite uniform distribution.

It of course follows that an infested leaf like this should be removed and burned, for there is no cure for it, and it only serves to propagate the parasite. It might be said in passing that if gardeners and crop growers generally could see through the microscope the enemies of their plants they would be all the more anxious to eradicate them.

Palm growers sometimes cut off the foliage of their plants below the blighted parts, but not cutting far enough below the line of disease it again appears so that palms are often seen with leaves half cut away and yet not free from the blight. This experience only teaches that the fungus is quite widely distributed within the plant, and is feeding in the apparently healthy tissue before observed from the outside.



PALM LEAF BLIGHT.

The fungus in question is a member of the genus Phyllosticta and belongs therefore to a group of parasites widely known for their destructive tendencies. They may be held in check by using the standard fungicides provided they are employed in time.

BYRON D. HALSTED.

N. J. Exp. Station, New Brunswick, N. J.

Cleveland.

Owing to the tightness of money and the continued labor troubles business has been moving slowly this spring in all lines of trade and especially so in the florists. We all hoped for things to brighten up after Easter and make amends for the dull winter that we passed through, but our books show that the average business done is below that of last year at this time. Flowers were never offered at so low a price, and the quality is first-class, better than usual at this season of the year.

One of our wholesalers has opened a large stand in the central market, where they have an attractive display card quoting "roses 35 cents per dozen," and the best roses at that. Is it any wonder that there is complaint of the store men on the avenue who buy from this same party and pay three dollars per hundred for the same class of roses?

J. M. Gasser has opened a branch store at the East End where he is also offering his surplus stock at lower prices than at his down town store.

The Hollanders received the cold shoulder in our city this spring, as none of the bulb growers for the Cleveland market made any money the past season, indeed it is doubtful if they came out even.

The Wamelink Bros. have the neatest window display of all the florists. Chas. Wagner is their efficient manager.

Mrs. Wilson, of Jennings avenue, had the most elaborate decoration of the season lately at the Hollenden. The occasion was a banquet given by the Board of Trade.

We all think the illustrations in the AMERICAN FLORIST of the flowers sent to the funeral of M. A. Hunt as near perfect as it is possible to make them, and think it is deserving of a compliment.

L. F. D.

News Notes.

TEXARKANA, ARK.—A severe hail storm on April 30 did much damage to the greenhouses and stock of M. S. Stegall.

LOUISVILLE, KY.—A effort will be made to arrange for a chrysanthemum show here this fall but date is not yet decided upon.

HARTFORD CITY, IND.—S. Humfeld and Wm. Worner have gone into business here at 18 West Main street, using the title Hartford City Floral Co.

ST. JOSEPH, MO.—Mr. and Mrs. L. J. Stuppy suffered a sad loss in the death of their youngest child, a bright boy of five years; burial took place May 3.

CEDAR RAPIDS, IOWA.—W. Waterhouse has just contracted with the Moninger Company, of Chicago, to put up two 100-foot greenhouses with the short span to the south.

LOUISVILLE, KY.—Cut flower business has been dull for some time but is picking up again. There is an abundance of roses and other flowers. The greenhouses and plants of the late A. Lauer were sold at auction May 8.

NICKERSON, KANS.—We are having rain in showers about 12 to 14 hours apart and all vegetation is in a flourishing condition. We could not have arranged it better if we had been able to turn the water on and off at pleasure.

MARION, O.—Easter trade was as good as could be expected. Cut flowers sold out clean, mostly in small orders. The trade in plants was fair, those offered at 25 cents or less selling best. It was difficult to find customers for fine azaleas, genistas or lilies, even at much reduced rates.

VAN WERT, O.—The Woodland Greenhouses have been purchased by a new firm, Wagoner & Wagoner, who have named the place "Van Wert Greenhouses." They start with about 18,000 feet of glass. A. J. Wagoner, manager. Will grow fancy cut flowers for wholesale market.

IOWA CITY, IOWA.—A terrible hail storm struck this town the afternoon of May 5 and did much damage. Jas. Aldous & Co. lost about $1500 in glass and plants. The hail averaged about the size of walnuts, and some were three inches in diameter. In some cases the hail punched holes in tin roofs. In places the hail lay on the ground three inches deep.

NYACK, N. Y.—The greenhouses of Jacob Mendel have been leased for a term of years to Messrs. Gustave Rummler and Conrad Walz. Both gentlemen are expert florists, and for many years held important positions in Minneapolis, Minn., where they are well known and have many friends who wish them success.

PARKERSBURG, W. Va.—Trade has been brisk here ever since March and the outlook is excellent for a good spring business. The excellent address delivered by Mr. Adolph Hiehle, the florist, at the organization of the State Horticultural Society recently, has been printed in full by a local paper. Mr. Hiehle made an earnest plea for unity and thoroughness in the work of extending the beneficial influences of horticulture throughout the state. The address was so well received and appreciated that he was afterward elected president of the new society.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By young man, age 26, as assistant in greenhouses. References.
Box 66, Maywood, Ill.

SITUATION WANTED—By young woman to learn general greenhouse work; Wisconsin or neighboring states preferred. Address
MISS MIRIAM JEWETT, Sparta, Wis.

SITUATION WANTED—By a married man, German, age 27, at a private or commercial place. Address H. FLEISSHAUER,
care J. M. Keller, Bay Ridge, L. I., N. Y.

SITUATION WANTED—As working foreman on commercial place, well up in growing roses, carnations and general florist stock; age 37, married. Good references. State wages. Address
J. R. care American Florist, Chicago.

SITUATION WANTED—By competent florist and gardener, well posted, single man open for engagement. Full particulars in answer must be given. Address W. B. K.
920 Spring Garden St., Philadelphia, Pa.

SITUATION WANTED—By first-class designer, also willing to make himself useful in greenhouse if necessary; single man of 30; first-class references. Will work for moderate salary if steady place. Address C. W., care American Florist.

SITUATION WANTED—To take charge, by a single man; life experience; a fine grower of roses, carnations, violets, and plants. Also making up. Good references as to ability and moral character. State wages, etc. FLORIST, 129 N. Clark St., Chicago.

SITUATION WANTED—By landscape gardener with landscape architect or in public park. Has had large experience in Europe. Can draw and design plans and carry out work. Address H. B.
care Am. Florist, Eastern Office, 67 Bromfield St., Boston, Mass.

SITUATION WANTED—By a gardener and florist; 35 years of age; life experience; 16 years in this country, as headgardener or manager; thoroughly versed in all its branches. Also in mushroom culture. Would like situation in any of the eastern states. For information or reference please address GARDENER, care Wm. J. Stewart, 67 Bromfield St., Boston, Mass.

WANTED—Small or medium size refrigerator; also 30 to 50 feet of ¾-inch galvanized or black pipe.
JOSEPH HANCROFT, Jr., Box 24, Cedar Falls, Iowa.

WANTED—An experienced man to propagate and grow catalogue stock, including roses (no bloom), one who can direct help; must be temperate.
WEBSTER BROS., Hamilton, Ont.

WANTED—A good all-round man to grow roses, carnations and chrysanthemums and plants for market; wages $25 with board, lodging and washing. Apply O. G. JOHNSON, Kingston, Ontario, Canada.

WANTED—In a well established florist business, an active partner well experienced in growing cut flowers with references, sober and attentive to business. But little or no capital required.
WHITE & HOLTON, Paducah, Ky.

WANTED—A salesman and collector who is well acquainted with the florist's trade in the vicinity of New York state age, experience and salary expected. Address W. care Florist's Exchange, 150 Fulton St., New York City.

WANTED—Outside gardener, one who understands both outside and inside work—man between 30 and 50 years of age preferred. Wages $15 per week and board. References required. Address
STATION L, Tacony, Phila., Pa.

WANTED AT ONCE—Working foreman, for forcing roses, carnations and general stock. Must be temperate and reliable—married man preferred. A good place for the right man. Address, stating wages expected, experience and references.
J. SHERRY CRAIG, Monongahela, Pa.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man.
WILFRED A. BROTHERTON, Rochester, Mich.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about $75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—2 large Bay Trees, round heads, 7 feet broad, 12 to 14 feet high. Shown at World's Fair.
VAUGHAN'S SEED STORE, Chicago.

FOR SALE OR RENT—My place at Bowmanville, 16,000 feet of glass, steam heat, plenty of stock. Good chance for man with a little money.
WM. JACQUES, Bowmanville, Ill.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE,
146 & 148 West Washington St., Chicago.

FOR SALE—Subject to removal, or to rent as they stand, three greenhouses; good business; population 12,000; steam heat, city water, electric cars. Reason other business. WALTER HELMS, Janesville, Wis.

FOR RENT—A first-class commercial place in suburb of Chicago, containing 15,000 square feet of glass, well stocked with best varieties of forcing roses. Address RENTER,
care Olsen & Hughes, 66 Wabash Ave., Chicago.

FOR SALE—The stock and good will of a paying florist business in a thriving Maryland town. Location exceptionally good. Rare chance for a good man with a small amount of capital. For particulars address HEBARD, care American Florist.

FOR SALE AT A BARGAIN—3 greenhouses 52x11 ft., with or without stock. Heated by Hitchings boiler; good established trade of 15 years; 2½ acres of good ground. Will sell houses for $300 and lease ground, or will sell all. Address
GEO. F. MOORE, Milton, Ind.

FOR SALE—At less than cost, greenhouses of 3,500 feet of glass; all in good repair; houses filled with cut flower, vegetable and bedding plants. Big trade; no opposition; big vegetable plant trade. Reasons for selling other business.
J. C. LEFEVRE, Paxton, Ill.

FOR SALE OR TO LET—In Secaucus, N. J. (best location), 10 minutes from R. R. station. Electric cars pass place. One acre with fine residence containing 10 rooms and good cellar, 7 greenhouses, barn, well, cisterns, and large stock in good condition. $9000 cash $3,000. The place could also be rented by party purchasing stock. Also adjoining acre of good ground. MRS. C. THOMAS,
Secaucus, N. J.

FOR SALE.

At a bargain, the best retail florist place (1 store and greenhouses) in the city and doing a good business; poor health reason for selling. For further particulars address H. F. HALLE, 548 W. Madison St., Chicago.

FOR SALE.

6000 Lizzie McGowans, 3000 from 2-inch pots, $2.00 per 100, and 3000 well rooted cuttings, $1.00 per 100. Cash with order or C. O. D.
JAMES CHALK, Norristown, Pa.

WANTED.

Houses engaged in the sale of Cape Flowers, Silk-Balls, Pampas, etc., address offers to ADOLF PAUK, first and largest Exporter of Fresh and Dried Flowers, Editor of the Austrian-Hungarian Gardeners Journal, Vienna, Austria, Habsburger Gasse No. 12.

FOR SALE.

Five greenhouses containing over 3,000 feet of glass, one 4-room dwelling house, barn and workshop, in one of the largest cities in Colorado. Greenhouses well stocked with roses, carnations and a large assortment of bedding plants for spring trade. Only two greenhouses in the city. Good retail trade; established 4 years. Possession given at once. For particulars address VICTOR JOHNSON, Colorado Springs, Colo.

Wanted. . . .

A competent Rose and Carnation grower for commercial place. Must be a first-class propagator. Good salary to right man. Must have first-class references, and be in Denver by June 1. Address, stating wages required,

P. O. Box 149, Denver, Colorado.

"MUST SELL"

to make room. Young roses, strong, 2½-inch Brides, Mermets, La France, Albany, Perles, Wootlons, at 3c.: $25.00 per 1000. Smilax plants, ready to plant, 2c. Cash with order.

SOUTH SIDE FLORAL CO., Springfield, Ill.

MAMAN COCHET.

The best **Tea Rose** of the importation of '93. In color it is on the style of Catherine Mermet but deeper and the bud more beautiful, of extra large size, strong grower and perfectly free from mildew—a superb rose.

PRICE:

5 inch pots	$ 5.00 per doz.
4-inch pots	20.00 per 100.
3-inch pots	18.00 per 100.
2½-in. pots	15.00 per 100.

☞Cash with the order.

JOHN COOK,
318 N. Charles Street, BALTIMORE, MD.

Rose Plants.

K. A. Victoria, 2½-inch	$5.00 per 100
Meteor, 2½-inch	4.00 per 100
Bride, 2½-inch	3.50 per 100
Bridesmaid, 2½-inch, $5, 3-inch,	8.00 per 100

Strong, thrifty plants.

BROWN & CANFIELD, Springfield, Ill.

ROSES.

Brides, Mermets, Perles, Cusins, Hoste, Watteville, Goutier, Meteor and La France, at $4.00 per 100. Bridesmaid and Beauty, at $6.00 per 100. Strongly rooted Beauty cuttings, at $3.00 per 100. Special prices on quantity. Let me price your lists. Cash with order.

ROBERT F. TESSON,
West Forest Park, ST. LOUIS, MO.

OUR TRADE DIRECTORY AND REFERENCE BOOK FOR 1894 IS NOW READY. PRICE $2.00.

AMERICAN FLORIST COMPANY,
P. O. Drawer 164,
CHICAGO.

Mme. C. Testout AND K. A. Victoria.

I have a fine stock of these two money makers, in 2½-inch pots, in splendid shipping condition. Get your stock from the Rose King of the West. I won 1st on these two Roses at the great World's Fair Chrysanthemum Show in competition with most of the leading rose growers of America. Also 1st for both at Indianapolis. TESTOUT, $6.00 per 100. VICTORIA, $5.00 per 100. Also all the leading varieties of Chrysanthemums, $3.00 per 100. Centaurea gymnocarpa, large, 2½-inch pots, $3.00 per 100. Basket plants, $3.00 and $4.00 per 100. Cash must accompany all orders.

W. W. COLES, KOKOMO, INDIANA.

2 CENT ROSES.

200,000 from 2½-inch pots, at $20 per 1000; $2.50 per 100.

STRICTLY OUR SELECTION. Cash with Order.

50,000 from 4-inch pots, at $50 per 1000; $6 per 100.

VARIETIES IN STOCK.

HYBRIDS—M. Baumann, Black Prince, Alfred Colomb, F. De Lesseps, De Graw, Dufferin, Edinburgh, Holmes, Giant of Battles, Lefebvre, Lyonnaise, Prince Arthur, E. Verdier, E. Fuerst.

HYBRID TEAS—Weilshott, Meteor, Pink Rover, La France, White La France, Albany, Wootton.

TEAS—Bravy, Gontier, Golden Gate, Mermet, Brides, Passot, President, Rubens, Anna Ollivier, Perle, Sunset, Schwarz, Watteville, Hoste, Salviati, Safrano, Waban.

CLIMBERS—Baltimore Belle, Seven Sisters, Tennessee Belle, Gustave Gossard, Marechal Niel, Solfaterre, Devoniensis, Lamarque, Perle, Richardson.

Also Queen's Scarlet, Soupert, Chatelard, Pernet, Kuster, Mignonette and other varieties.

Quality of stock guaranteed. Personal inspection invited. Send for quotation on your own selection.

THE NATIONAL PLANT CO., Dayton, Ohio.

FINE STOCK 100,000 ROSES. BEST SORTS

In prime condition for planting out or repotting Young stock full of vigor. We name a few sorts:

Perle, Sunset, H. M. Stanley, Golden Gate, Victor Hugo, Brownlow, Ctesse. de Labarthe, Krueger, J. B. Varrone, Niveus, Mme. Camille, Homer, Aurora, A. Christophle, Bon Silene, Coquette de Lyon, J. Schwartz, Salviati, Souv. de F. Gaulin, Souv. de Pernet, Striped, White and Pink La France, Bride, Mermet, Christine de Noue, Mme. Pierre Guillot, Meteor, Hermosa, Queen's Scarlet, M. Niel, Lamarque, Solfaterre, Euphrosyne, Dijon, E. Pradel, Beve d'Or, Lady Washington, W. A. Richardson, Reine Olga, Paquerette, Mignonette, C. Brunner, Mrs. Degraw, Empress Eugenie, Bosanquet, and dozens of other good sorts.

Above assortment not in excess of any one sort, $3.00 per 100; $30.00 per 1000.

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A big stock of bedding plants. Write for quotations.

Address NANZ & NEUNER, Louisville, Ky.

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FOR SALE.

Choice lot of young rose plants out of 2½ and 4-inch pots. Mermets, Brides, La France, Perles and **Bridesmaids**. Apply

GORDON PARK GREENHOUSES, Glenville, Cuyahoga Co., Ohio.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

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YOUNG ROSES.

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Am. Beauties, in 2 and 3-inch pots.
Perles in 2-inch pots.
Mermets in 2-inch pots.
La France in 2-inch pots.
Albany in 2-inch pots.

BASSETT & WASHBURN, Hinsdale, Ills.

One Hundred Thousand Forcing Roses.

No. 1, clean stock. Especially grown for benching. Out of 2½-inch pots, at panic prices.

	Per 100	Per 1000		Per 100	Per 1000
Catherine Mermet, extra strong	$2.50	$20.00	American Beauty, fine	6.00	50.00
White La France, extra strong	3.00	25.00	C. Soupert, strong	3.00	25.00
Meteor, extra strong	3.00	25.00	M. Niel, extra	3.00	25.00
The Bride, strong	3.00	25.00	Gen. Jacqueminot, very fine	4.00	25.00
Niphetos, strong	3.00	25.00	All other mixed Teas, our selection, very fine plants	2.50	20.00
Perle des Jardins, fine	4.00	35.00			

All kinds of Bedding stuff way down for CASH.

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FINE ROSE PLANTS.

I have for sale the following extra fine rose plants:

Meteors, - - 2½ and 3-inch pots
K. A. Victoria, - 2½ and 3-inch pots
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JOHN BURTON, Chestnut Hill P. O., Philadelphia, Pa.

ROSES. ROSES.

	Per 100.		Per 100.
Am. Beauties,	$6 00	Brides, - -	$3 50
Testout, -	6 00	La France, -	3 50
Meteors, - -	3 50	Mermets, -	3 50

Special discount on our Beauties on orders of 500 or over.

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ROSES, all the very best both new and old.

CHRYSANTHEMUMS, the cream of all the long list now offered, in extra fine plants now ready for immediate delivery.

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Brides, Bridesmaids, Perles, Meteors, Hostes, From 2, 3 and 4-in. pots. **ROSES** Cusins, Beauties, Niphetos, Testouts, La France, Mermets,

Address for quotations T. W. STEMMLER, VILLA LORRAINE ROSERIES, Madison, N. J.

Sole Agents for U. S. for Chas. Macintosh & Co., England, Inventors of Vulcanized India Rubber, Extra strong greenhouse hose to withstand high pressure. ¾-in., 3-ply, 15c. per foot in 50 feet lengths.

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Subscription $1.00 a Year. To Europe, $2.00.

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Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remembe it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

L. K.—"Double" callas are not very rare. We have made numerous notes of such abnormal flowers in past issues of the FLORIST. Flowers have been sent us with as many as three spathes.

THE REPORT of the Missouri Botanical Garden for 1893, recently received by us, contains copious information of the garden itself, in addition to scientific papers by Prof. Trelease and others. Those planting for effect will find the tables giving time and duration of flower and foliation of a variety of outdoor plants extremely suggestive.

DO YOU WANT the census statistics regarding the florist, nursery and seed trades? You will find them in our trade directory and reference book for 1894. Price $2.00.

YOU CAN never invest $2 to better advantage than in a copy of our trade directory and reference book.

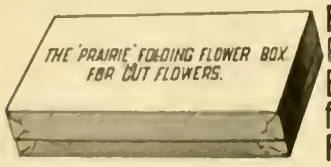
NOTICE.

Chicago Flower Exchange.

At a special meeting of the Stockholders of the Chicago Cut Flower Exchange, held at No. 45 Lake Street, Saturday morning, April 28th, it was resolved to discontinue the business. All persons having claims against the Chicago Cut Flower Exchange are requested to present same at once, and those indebted to said Exchange are requested to make payment without delay to

GEO. KLEHM, Sec'y,
59 Wabash Avenue. CHICAGO.

A. G. PRINCE & CO.
WHOLESALE
Commission Florists
REMOVED TO
41 Wabash Ave.,
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FOLDING PAPER BOXES for CUT Flowers.

Made from heavy, Manilla Board. Strawboard. Shipped flat, packed 100 in a crate.

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TELEPHONE MAIN 618.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

REMOVAL NOTICE.

This is to inform our friends and patrons that on and after May 1st, '94, we will be located at

59 WABASH AVENUE, 2nd Floor, CHICAGO,

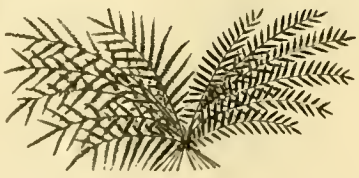
where we will be pleased to see you. We are now as were before prepared to fill all orders with good stock and prompt shipment. Come and visit our new quarters when you are in the city.

We remain yours,

NILES CENTER FLORAL CO.

CORBREY & McKELLAR,
Wholesale and Commission Florists,
Phone Main 4508. 64 & 66 Wabash Ave., **CHICAGO.**
We are prepared to fill your orders with First-Class Flowers.
Give us a trial order.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
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SPHAGNUM MOSS IN ANY QUANTITY.
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and FLORISTS' SUPPLIES.

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The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to

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Cut Flowers.

NEW YORK, May 5.

Roses, Perle, Cusin, Watteville	1.00@ 4.00
" Meteor, Mermet, Bride	1.00@ 4.00
" Bridesmaid	2.00@ 5.00
" Testout	2.00@ 5.00
" Beauty	2.00@20.00
" Hybrids	2.00@20.00
" Jacqs	5.00@15.00
Carnations	1.00@ 3.00
Harrisii	.50@ 2.50
Valley	1.00@ 2.00
Daffodils	2.00@ 3.00
Sweet peas	.75@ 1.00
Mignonette	2.00@ 4.00
Marguerites	.50@ .75
Smilax	15.00@25.00
Asparagus	35.00@50.00
Adiantum	1.00

BOSTON, May 5.

Roses, Niphetos, Gontier	2.00@ 4.00
" Perle, Sunset	3.00@ 4.00
" Bride, Mermet	4.00@ 6.00
" Jacqs	6.00@15.00
" Brunner	10.00@40.00
Carnations	2.00@ 4.00
Violets	50@ .75
Harrisii	6 00@ 8.00
Lily of the valley, daffodils	3.00@ 4 00
Astilbe	1.00@ 2.00
Mignonette	2.00@ 4.00
Sweet peas	2.00
Adiantum	1.00
Smilax	10.00@12.00
Asparagus	50.00
Primroses, per bunch	12c

PHILADELPHIA, May 5.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watteville, Hoste	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 5.00
" Kaiserin, Bridesmaid, Testout	5.00@ 8.00
" Belle, Beauty	10.00@25.00
" Jacqs	10.00@15.00
Carnations, fancy	2.00@ 3.00
" good ordinary	.75@ 1.25
Valley	1.00@ 3.00
Yellow daisies	1.00@ 1 50
Mignonette	1.00@ 1.50
Asparagus	50.00@75.00
Harrisii lilies	4.00@ 6.00
Sweet peas	.50@ 1.00
Cattleyas	40.00
Orchids	15.00@40.00
Smilax	15.00@20.00

CHICAGO, May 8.

Roses, Meteor, La France	3.00
" Mermet, Bride, Perle	2.00
" Wootton, Duchess	2.00
" Testout	5.00@ 6.00
" Beauty	18.60@25.00
" good ordinary	$15.00 per 1000
Carnations	.75@ 1.50
" fancies	2.50
Valley, outdoor	1.00
Harrisii	4.00
Sweet peas	1.00@ 1.50
Smilax	15.00
Asparagus	50.00

CINCINNATI, May 5.

Roses, Beauty	10.00@25.00
" Mermet, Bride	3.00@ 4.00
" La France	5.00
" Perle	2 00@ 3.00
Carnations	1.00@ 3.00
" short	.75
Callas, Harrisii	6.00
Sweet peas	1.00@ 1.25
Valley	2.00@ 3.00
Smilax	15.00
Adiantum	1.00
Asparagus	50.00

BUFFALO, May 7.

Roses, Beauties	10.00@25.00
" Jacqs	8 00@12.00
" Mermet, Bride	4.00@ 6.00
" Meteor	4.00@ 8.00
" Gontier, Perle Hoste	3.00@ 5.00
" Cusin	3.00@ 5.00
Callas, Harrisii	8.00@10.00
Carnations, long	1.50
" Daybreak and Wm. Scott	1.50@ 2.00
" short	.75
Valley	3.00
Violets	.50@ .75
Tulips, Daffodils	2.00@ 3.00
Romans	2.00
Sweet peas	75@ 1.00
Mignonette	1.00@ 2.00
Smilax	15.00@20.00
Adiantum	1.50
Asparagus	50.00

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For 1894

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PRICE $2.00.

American Florist Co.,

DRAWER 164. CHICAGO.

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SPECIALTIES:

American Beauty,
Bride,
Bridesmaid,
Meteor,
Sweet Peas.

BURNS & RAYNOR,

49 West 28th St., NEW YORK.

FOR

After Easter Weddings,

PURE WHITE LILAC

Seasonable, Choice, Appropriate.

ALSO ALL OTHER DESIRABLE STOCK.

CAN SUPPLY IN ANY QUANTITY DESIRED.

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Roses Shipped to all points. Price list on application.

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Established 1879.

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BRANCH: Cut Flower Exchange, 408 E. 34th Street.

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WELCH BROS.,

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Near Tremont St., BOSTON, MASS.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, at Toronto, Ont.

MR. ALFRED UNGER, of L. Boehmer & Co., Yokohama, Japan, sailed May 4 for San Francisco, on a business trip through the U. S.

THE FARMER SEED CO. have removed from West Van Buren street, Chicago to Faribault, Minn., where they have just erected a three story warehouse with all the conveniences for handling farm seed and potatoes. Their extensive trade in northern grown seeds with the western farmers seemed to demand this charge.

Lilies from Bermuda.

We learn from a letter addressed to a Philadelphia gentleman by one of the Bermuda growers who shipped flowers here for Easter, that "The experiment is not likely to be tried again for the reason that it does not pay." Our correspondent adds that in the recent shipments the receipts did not pay the expenses.

Tobacco Stems as a Fertilizer.

Has any reader of the FLORIST ever used tobacco stems as a fertilizer? If so, how were they used, and what were the results? Market gardeners here use them to some extent. We would like to know the results of using them as a fertilizer for florists' plants. SALTER BROS.
Rochester, N. Y.

Minneapolis, Minn.

The park board has contracted for bedding plants for this season's planting at the following rates per 100: Coleus and alternanthera $1 to $1.75, thyme $2, geraniums of standard varieties in 4-inch pots $4 to $5, fuchsias in 4 inch pots $5, cannas of blooming varieties with four leaves $5, pyrethrums in 4-inch pots $4, pansies 75 cents to $1, echeverias $1.50 to $2. Prices of other plants are equally low.

The question arises whether plants can be profitably grown for such prices. If not, what is the sense of competing for the business? W. R.

DO YOU WANT a list of firms in the trade that issue catalogues, with key showing proportion of space given each branch of the trade in same? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

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Bulbs & Plants
OF STANDARD QUALITY.
For Catalogue, address
C. H. JOOSTEN, IMPORTER,
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Tuberose Bulbs.
To close out our stock we offer sound bulbs
Dwarf Pearl, 2d Size 50c per 100; $3 per 1000
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Variegated leaved, 1st size, $1.25 per 100; $10.00 per 1000.
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Always mention the American Florist when writing to advertisers.

Sunset Seed and Plant Co.
(SHERWOOD HALL NURSERY CO.)
No. 427-9 SANSOME STREET,
SAN FRANCISCO, CALIFORNIA.
HEADQUARTERS FOR
CALIFORNIA-GROWN SWEET PEAS
And other Flower Seeds.
PACIFIC COAST TREE SEEDS
And Native Bulbs.
JAPANESE LILY BULBS
And other Oriental Specialties.
ONION SEED, PEAS, BEANS, ETC.
Write for special contract prices.

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HILLEGOM, - HOLLAND,
Largest Growers of
HYACINTHS, TULIPS, NARCISSUS,
SPIRAEA, LILIES OF THE VALLEY, ETC.
HEADQUARTERS FOR HIGH GRADE FORCING BULBS.
Wholesale Importers should write us for Prices.
OUR NEW TRADE LIST NOW READY.

JOHN SPEELMAN OF
C. J. SPEELMAN & SONS,
WHOLESALE BULB GROWERS,
(45 ACRES IN CULTIVATION.) SASSENHEIM, HOLLAND,
Begs to advise his American customers that he will call upon them at an early date and asks that orders be reserved until he has called. I shall be in America till May 15, and up to that date correspondence addressed to JOHN SPEELMAN, care of KNAUTH, NACHOD & KUHNE, 5 South William Street, NEW YORK, will have prompt attention.

Hulsebosch Brothers,
OVERVEEN, near Haarlem, HOLLAND.
Bulbs AND Plants
We are now prepared to quote lowest possible prices for next July, August and September delivery.
HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.
After May 1, '94, address will be ENGLEWOOD, N. J.

200 Niphetos Roses, 20 inches high, $10.00 per 100.
Bouvardias, rooted cuttings, 5 vars. $1.50 " "
Blue Lobelias, for Baskets, ready to bloom, $2.00 per 100
Verbenas, $2.50 per 100. Extra fine colors.
Write for list and low prices.
McCREA & COLE, Battle Creek, Mich.

SUMMER DELIVERY.
FREESIAS, LIL. LONGIFLORUM, CALLAS, GEM CALLAS, AMARYLLIS, CALIFORNIA BULBS, Brodiaea, Calochortus, Fritillarias, TREE FERN STEMS, and Australian Palm Seeds. Send for our NEW PRICE LIST.
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Complete Stock of
ASTER SEEDS
At Reasonable Prices
PRICE LIST FREE ON APPLICATION.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

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HYACINTHS, TULIPS, DAFFODILS,

And all other bulbs for forcing and outdoor, in very fine quality, at very low rates.

References as to the quality of our Bulbs, to nearly all the leading Bulb Importers in the United States.

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Please ORDER ON RECEIPT of our Catalogue.

SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE, near Haarlem, HOLLAND.

Primula Obconica and Moonvines.

	Doz.	100
Primula Obconica, fine young stock	$.50	$ 3.00
Moonvines, white and blue	.50	4.00
Achillea fl. pl	.60	4.00
Alyssum Tom Thumb, variegated & white.	.40	3.00
Ageratum, white and blue	.40	3.00
Aloysia citriodora	.60	
Abutilon, our selection	.50	4.00
Alternantheras, from flats (per 1000 $15)	.25	2.00
Begonias, Argenten Guttata	.40	3.00
" Metallica	.40	3.00
" Listri or Diadem	.60	4.00
Balm, variegated	.40	
Calla Little Gem, 2-inch	1.25	10.00
" " " 3-inch	1.50	12.00
" " " 4-inch	2.50	20.00
Centaurea Gymnocarpa	.40	3.00
Carnations, our selection	.50	4.00
Cestrum Parqui	.60	5.00
Coleus, our selection	.40	2.50
" named	.50	3.00
Chrysanthemums, our selection	.40	3.00
Cuphea, 2 varieties	.40	3.00
Chænostemma hispida	.40	3.00
Cissus Discolor, 2-inch	.75	
Cannas, our selection	1.00	6.00
Chinese Matrimony Vine, 1 year	1.25	
Dahlias, dry roots, our selection	1.00	6.00
Daisies, Marguerite, white	.50	4.00
" English, Snow Crest	.75	
Fuchsias, our selection	.40	3.00
" Trailing Queen	1.00	8.00
Geraniums, our selection	.50	3.00
" Ivy leaved, our selection	.50	3.00
" " L'Elegant	.75	
Glechoma Hederacea var	.50	4.00
Hydrangea, 3 varieties, 2½ inch	.50	4.00
" paniculata grand., 2 ft. branched	1.50	12.00
Hoya	.50	4.00
Heliotrope	.50	4.00
Musk Plant, double	1.25	
Manettia Vine	.50	3.00
Moonvine, white and blue	.50	4.00
Nasturtium Cardinal Prince	.60	4.00
Primula Obconica	.50	3.00
Pelargoniums, mixed unnamed	.50	3.00
Pointcederia, Water Hyacinth	1.00	
Smilax	.40	2.50
Vinca, 3-inch	1.00	8.00
Verbenas	.40	3.00
Violets, Double Russian	.85	

I. N. KRAMER & SON, Cedar Rapids, Iowa.

SEEDS!
PLANTS! BULBS!
Everything appertaining to the **Farm** and **Garden** of the best and choicest quality. **PRICES RIGHT.**
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

PLEASE mention the AMERICAN FLORIST every time you write to an advertisers.

VAN ZONNEVELD BROTHERS & CO.

SASSENHEIM, - HOLLAND,

— GROWERS OF —

HYACINTHS, TULIPS, NARCISSUS, ETC.

Now ready to quote our lowest prices for Wholesale Importers.

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100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

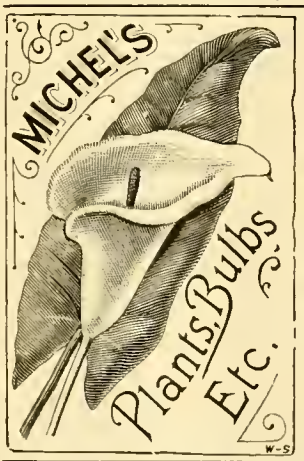
Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.



Write for Wholesale List.

MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

CHRYSANTHEMUM NIVEUS.

Now ready, from 2-inch Pots, strong plants, price, $1.50 per dozen; $10.00 per hundred.

DAILLEDOUZE BROS., Flatbush, L. I., N. Y.

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CYCLAMEN SEEDS,

European strain.

LILIES OF THE VALLEY,

Berlin and Hamburg Pips.

FLOWER SEEDS for Fall delivery.

METAL WREATHS.

All at Import Prices.

SCHILLER & CO.,

Commission Seed Merchants,

122 E. 23rd Street, NEW YORK.

Please make us offer of all kinds of Seeds and Bulbs, we will sell it for you.

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CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.

. . . HARRISBURG, PA.

Mention American Florist.

St. Louis.

The market trade in plants has improved during the past week, prices remaining about the same. In cut flowers there has been a falling off in demand; several days towards the end of the week can be characterized as very dull. Good long stemmed Beauties have been wholesaling all the way from 15 to 25 cents, and other stock in proportion. The shipping still continues good and promises to continue so during the remainder of the season; this branch of trade is expected to hold its own with last season's sales.

The Director and Board of Trustees of the Missouri Botanical Gardens have decided to erect a greenhouse 90x20 feet, equal span, running east and west, for the growing of stove and greenhouse plants; it is to be divided into sections by partitions, and so piped that any desired temperature can be carried in the various sections independent of each other. The construction is to be modern in every respect, and the contract has been awarded to the firm of Thompson, Anderson & Kennedy, the house to be finished by July 1st.

Mr. Dunford, since his return from the East, has secured a tract of land embracing 24 acres, at Lackland Station, St. Louis county, and will shortly commence the erection of a 250 foot house for the growing of cut roses for the wholesale trade.

In speaking to President Jordan of the Hail Association regarding the position of that body in reference to the death of its treasurer, he stated that there was nothing in the constitution and by-laws that would provide for the appointment of a successor. He has had therefore to fall upon general custom, which provides and allows the highest official of a society to fill vacancies, and after consultation with several prominent members has appointed Mr. Esler treasurer until a successor to Mr. Hunt be elected. In the meantime the assessment that has been ordered paid can be forwarded either to Mr. Jordan or Mr. Esler, who will receipt for same. R. F. T.

IN THE April 15 issue of *Gardening*, Chicago, appears an excellent article on greenhouse building, giving a very full and complete description of the F. R Pierson Co's. range of modern houses at Scarborough, N. Y. The illustrations include a general view of the range, plan of same, a section of one of the houses and detail drawings showing construction of the benches and the new method of joining the glass at the eaves.

DO YOU WANT a complete alphabetical list of carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

THE New York *Recorder* of April 15 prints an illustrated article descriptive of violet growing as carried on by Chas. Withington at Kingston, N. J.

VIOLETS.

MARIE LOUISE, perfectly free from disease.....per 1000, $8.00.

PANSIES, choice strain, in bloom, ...per 1000, $15.00.

JOHN P. TONNER, Mont Clair, Ill.

Mention American Florist

ENTIRE STOCK OF PLANTS FOR SALE.

The stock of plants of Charles A. Reeser, Florist, Springfield, Ohio, is now offered for sale, in large or small lots as the purchaser may desire.

100,000	ROSES, new and rare sorts, our selection of varieties,				$20.00	per 1000
25,000	GERANIUMS,	"	"	"	20.00	"
25,000	BEGONIAS,	"	"	"	20.00	"
25,000	CHRYSANTHEMUMS	"	"	"	20.00	"
200,000	Miscellaneous Bedding Plants, a choice assortment,				20.00	"

A liberal discount given on large orders. Prices given on any stock desired. Catalogue on application.

ADDRESS CHARLES A. REESER, Springfield, Ohio.

THE BEST CHRYSANTHEMUM

We have ever sent out is our Novelty for 1894, named

PITCHER & MANDA (1500)

Any Florist when he sees it this fall in bloom, if he has not a stock of it will regret he did not procure it. It is of fine habit, free grower and stout stem; flowers very large, of great substance and lasting qualities. Color pure canary yellow with the exception of the outer five or six rows of petals which are pure white. The halo and soft blending is most pleasing and effective, and those who saw it in bloom last season regarded it as the most beautiful variety in our collection. It was awarded four first prizes and certificates of merit. As we had but a few blooms of it we were unable to exhibit it except in a very limited way. The price at which it is offered is a great break in this direction and in line with the general policy of the present management to offer only stock of the highest quality and at the lowest price. It will prove one of the most valuable Florist and Exhibition flowers ever introduced. We recommend it without reserve as the greatest Novelty of 1894, and those who have not already secured a stock of it should not fail to do so at once, as this variety is sure to meet with great favor. It has not been weakened by over-propagation by us this season, and nice plants will be delivered.

Price, 35c. each; $3.50 per doz.; $25 per 100.

PITCHER & MANDA,
UNITED STATES NURSERIES,
SHORT HILLS, N. J.

ROOTED CUTTINGS

COLEUS, 10 kinds by mail.....60c per 100
" 12 kinds by express..$4.00 per 1000
ALTERNANTHERA P. Major and Aurea Nana, by mail.....50c per 100

CASH WITH ORDER.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

20,000 Bouvardias,

two varieties, in 2½-inch pots, at $3.00 per 100; $25.00 per 1000.

UHLMANN & HAISCH,
MEMPHIS, TENN.

PLANTS.

	Per 100
Alternantheras, P. major, Auren nana, Tricolor (Rosea nana), Versicolor	2.50
Plumbago, Capensis and Alba	4.00
" Lady Larpent's	4.00
Perennial Phlox, fine assorted.....$6.00 and	4.00
Achillea "The Pearl"	4.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't.....$3.00 and	4.00
Abutilons, assorted	4.00
Echeveria Extensa globosa, 3 to 6 inches across, per dozen, $1.00.	
Mexican Primrose	3.00
Lady Washington Geranium	6.00
Achyranthus, assorted	3.00
Coleus, assorted.....$2.00 and	3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Antherieum picturatum.....per dozen, 75c.	
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00
Silver-Leaf Geraniums, 3 varieties (no Mme. Salleroi)	4.00
Oxalis, Ortgiesi	4.00
Dahlias, named, our selection	5.00
French Cannas, named, our selection, dry roots..	5.00
French Cannas, unnamed	3.00
" " potted	10.00
Fancy Leaf Caladium, fine mixed	6.00
" " named	8.00

Trade list on application.

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.



New Catalogue (No. 4) containing over 1000 Ornamental Cuts for Florists' use, such as envelopes, letter-heads, bill-heads, cards, advrs., floral designs, etc., at from 50c. and upward. Price of Catalogue 25c. (deducted from $1.00 order).

A. BLANC, ENGRAVER for FLORISTS, Philadelphia, Pa.

PLANTS.

CABBAGE and TOMATO PLANTS, strong, $2.00 per 1000.
BUBACH No. 5 STRAWBERRY, $2.00 per 1000.
PEPPER, $1.50 per 100.
EGG PLANTS, $2.00 per 100.
CELERY PLANTS, ready May 10, $2.00 per 1000.
MIXED CANNAS, $2.00 per 100.

BONNER SPRINGS NURSERIES,
BONNER SPRINGS, KANS.

THE DIRECTORY FOR 1894 IS NOW READY.

PRICE $2.00.

AMERICAN FLORIST CO.

CARNATIONS.

Portia, Darling, Dorner, at $1.25 per 100; $10.00 per 1000.
Daybreak and Edna Craig at $2.00 per 100.
Annie Pixley and Helen Keller at $10 per 100; 25 for $3.00.

COLEUS.

Fine assortment, clean cuttings, at 75c. per 100 or $6.00 per 1000.

200,000 SMILAX

Ready May 15th and after, at $6.00 per 1000, or 75c. per 100. An honest sample for 10c.

Cash with the order or C. O. D.

ALBERT M. HERR, L. B. 496, Lancaster, Pa.

4 NEW CARNATIONS
FOR 1894.

UNCLE JOHN, white; **THE STUART**, scarlet;
E. A. WOOD, pink variegated;
GOLDFINCH, yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from **Headquarters.** We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Eliz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.
Send for price list.

F. DORNER & SON, La Fayette, Ind.

MONEY-GETTERS ALL!

THESE NINE **CARNATIONS** FROM SOIL.
Free from Disease and First-Class in every way.

- Uncle John
- The Stuart
- Wm. Scott
- Edna Craig
- Albertini
- Daybreak
- Cartledge
- McGowan
- Portia

Note, before you order elsewhere, that we offer the above and twenty other good varieties of Carnations, well established in soil, ready for planting out or potting up—delivery in April—at the price of cuttings from sand, and guarantee satisfaction. Send for list.

ALEX. McBRIDE,
ALPLAUS, N. Y.

Mention American Florist.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE,
"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $16.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000.
Send for price list.

EDW. SWAYNE,
KENNETT SQUARE, PA.

CARNATIONS

ROOTED CUTTINGS NOW READY.

Wm. Scott, Edna Craig, Daybreak, Thos. Cartledge, Buttercup, McGowan, and many of the standard kinds. Orders filled for the New varieties,
Stuart, Uncle John, Helen Keller, Sweetbrier, Annie Pixley, Bouton d'Or.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

SEND FOR OUR PRICE LIST OF

CARNATION ROOTED CUTTINGS.

Prices Greatly Reduced.
Largest Stock in the United States.

ESSEX HEIGHTS FLORAL CO.,
BELLEVILLE, N. J.

Without Doubt We have a Carnation of strong Constitution in "HELEN KELLER"

Mr. J. T. Anthony, of Chicago, says:
"I like Helen; she is a good grower."

David Bearn, Bala, Pa., declares that "it roots quicker than any other variety that is put in the sand at the same time."

PRICE FOR WELL ROOTED CUTTINGS:

$3.00 per dozen; $12.00 per 100; $25.00 per 250; $90.00 per 1000. 500 at 1000 rate.

ORDERS MAY BE SENT EITHER TO

EDWIN LONSDALE, CHESTNUT HILL, PHILA. or **JOHN N. MAY,** SUMMIT, N. J.

THE COTTAGE GARDENS, QUEENS, LONG ISLAND.

NEW CARNATIONS.

Will have ready about May 20th rooted cuttings as follows:

10,000 WILLIAM SCOTT.
10,000 DIAZ ALBERTINI.
5,000 McGOWAN.
1,000 THOMAS CARTLEDGE.
5,000 PORTIA.

Daybreak sold out.

CARNATIONS

MAMMOTH STRAIN **VERBENAS.**

Rooted Cuttings or Plants.

New French Cannas; Chrys. Geo. S. Conover; Geranium Silver Jewel; Anemone Whirlwind; Pink Her Majesty; Fuchsia Trailing Queen; and many other fine Novelties.

Write for Illustrated Catalogue.

VICK & HILL,
ROCHESTER, N. Y.

THE JACQUEMINOT CARNATION

Is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. NO MORE SAMPLES—we cannot spare the time. Send for circular. Per dozen, $2.00; per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.

PETER FISHER & CO.,
ELLIS, Norfolk Co., MASS.

HEALTHY CARNATION CUTTINGS.

	Per 100	Transp'd
HINZE'S WHITE	$1.00	$1.25
McGOWAN	1.50	2.00
ANNA WEBB	1.50	2.00
LAMBORN and WILDER	—	1.50
PORTIA	—	1.50
PORTIA, in pots	—	2.00
AURORA, in pots	—	2.50

No Rust.

J. T. DeWITT, Bristol, Pa.

ROOTED CUTTINGS OF CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chester Co., PA.

DO YOU WANT detailed information about the organization and workings of the various national trade organizations? You will find what you want in our trade directory and reference book for 1894. Price $2.00.

Prices Lower Than Ever.

Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to $5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

For general Japanese stock apply to

F. Gonzalez & Co.,
303 to 312 Wayne St., SAN FRANCISCO, CAL.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
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Wm. Scott. Daybreak. Tidal Wave. These and all the leading varieties, including **The Stuart, Uncle John, Goldfinch, Helen Keller, etc.,** ready for immediate delivery. Send for prices.

GEO. HANCOCK & SON,
. . . Grand Haven, Mich.

ROOTED CUTTINGS

CHRYSANTHEMUMS

Write for list and prices. Prices to suit the times.
STRONG SMILAX, from 2½-inch pots, $3.00 per 100; $25.00 per 1000.
PANSIES, from cold frame, first size, $25.00 per 1000; second size, $15.00 per 1000.

Address **J. G. BURROW, Fishkill, N. Y.**

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Toronto.

There is very little news concerning the horticultural world to be got hold of these days. Spring is such a short season in this country. In the old country there are three or four months in which to do the work that has to be rushed through in less than two here and it is possible for gardeners to chat with their fellow tradesmen now and then, but in Canada at this season it is nothing but work, work, work. There is plenty of time for chatting in the winter however.

The weather still keeps fine and mild with an occasional shower and vegetation is about two weeks ahead of last year.

The Toronto Gardeners' and Florists' Association desires to return thanks to the American Florist Co. for copies of the new trade directory; the secretary says it will be most useful to him, especially about chrysanthemum show time.

Gardens are looking very gay now. Hyacinths and tulips are in the zenith of their glory.

Herbaceous plants are gaining ground in this city. The gardeners at both the Central Prison and the Normal School Grounds have been planting large beds this year and intend to do more of it next year if possible. There is an increasing demand for them for private places also.

E.

Florists' Hail Association.

President J. M. Jordan of the Florists' Hail Association has appointed John G. Esler, of Saddle River, N. J., Treasurer pro tem of the F. H. A. Members of the Hail Association will please make all remittances payable to the order of J. M. Jordan and mail same to John G. Esler, Saddle River, N. J.

JOHN G. ESLER,
Secretary.

READ THIS.

FELTHOUSEN, the COLEUS SPECIALIST, has at least

100,000 PANSIES, in the seed bed, at $2.00 per 1000, and about 50,000 transplanted in flats, at $1.00 per 1000.
ROOTED CUTTINGS of COLEUS, your selection. $3.00 per 100. Our selection, $5.00 per 1000.
FUCHSIAS, leading sorts, rooted cuttings $1.00 per 100.
HELIOTROPE, 4 varieties, $1.00 per 100.
SALVIAS or SWEET SAGE, $1.00 per 100.
AGERATUM, blue and white, 75c. per 100; $5 per 1000.

Cash must in all cases accompany the order.

J. E. FELTHOUSEN,
370 Van Vranken Ave., SCHENECTADY, N. Y.

MUST SELL TO MAKE ROOM.

Large and extra fine stock of the below named plants, all in 2 and 2½-inch pots, except the pansies. Our selection of varieties, of which we keep only the best. The geraniums, petunias and fuchsias can't be beat. All the flowering stuff is in bud and bloom.

	Per 100
Double Petunias, large percentage best white	$4.00
Geraniums, best doubles and singles	3.00
Fuchsias, best double and singles	3.00
Heliotrope in variety	2.50
Ageratum, Dwarf White	2.50
Alyssum, Little Gem	2.00
Verbenas, very best kinds	2.00
Feverfew, Double White	2.00
Centaurea gymnocarpa	3.00
Smilax, 1 year old plants	1.50
Carnation, Marguerite, every one double	2.00
Carnation, Lizzie McGowan	2.00
Pansies fine strain	1.50

25 at 100 rate, but no order filled for less than $1.00. In job lots of 100 of each of the above kinds, making 1300 plants in all, $12; or 50 of each of the above kinds, 650 plants, $12. Cash with order. All orders filled immediately they are received as long as the stock lasts.

EAST SIDE GREENHOUSES, Mt. Pleasant, Iowa.



TRY DREER'S GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

Mention American Florist

20,000 ARAUCARIAS

ARAUCARIA EXCELSA, 6 to 8-inch plants, *$35.00 PER 100; $6.00 PER DOZ.*
ARAUCARIA IMBRICATA, small plants, *$8.00 PER 100; $1.50 PER DOZ.*

The above delivered by Mail or Express at prices quoted.

New Crop	Phœnix Canariensis,	$2.50 per 1000 Seeds
"	Washingtonia filifera	.75 per lb.
"	Chamærops excelsa	.50 per lb.
"	Grevillea robusta	5.00 per lb. 50c oz.

COX SEED AND PLANT CO.
411, 413 & 415 Sansome Street,
SAN FRANCISCO, CAL.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 245 Greenwich St., New York City.

JUST RECEIVED **Fresh Seeds**

Cocos Weddelliana	at $10.00 per 1000
Latania Borbonica	at $4.50 per 1000

Order at once.

W. A. MANDA,
The Universal Horticultural Establishment,
SOUTH ORANGE, N. J.

LATANIAS.

For Sale Cheap, 100 very choice Latania borbonica in 10 and 12 inch pots with 8, 10 and 12 leaves, at from $6 to $10 each.

H. F. HALLE,
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CARNATIONS,
CHRYSANTHEMUMS,
HYDRANGEAS,
MARIE LOUISE VIOLETS.

Send for Trade List.

SAMUEL J. BUNTING,
Elmwood Ave. and 58th St., PHILADELPHIA, PA.

Hardy Water Lilies.

		Per Doz.
NYMPHÆA Odorata, large rhizomes		$1.00
"	Gigantea, "	1.00
"	Minor, "	1.00
"	Rosea, "	2.00
"	Rosacea, "	1.00
"	Tuberosa, "	1.00

GEORGE FARRANT, Salem, N. C.
Mention American Florist

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

50,000 Dwarf French CANNAS.

We offer the above quantity in strong, well established plants from 3 and 4 inch pots. This stock must not be confounded with dormant pieces or freshly divided plants out of benches.

We list here only the principal varieties of which we have a large supply. For a general list refer to our Spring Trade List which describes over seventy-five varieties, including all the desirable novelties of the season, including the grand New German variety, Konigin Charlotte:

	Per 100
Madame Crozy	$10.00
Alphonse Bouvier	10.00
Paul Marquant	10.00
Capt. P. de Suzzoni	15 00
Florence Vaughan	25.00
Charles Henderson	25.00
Paul Bruant	20.00
Admiral Gervais	15.00
Comtesse de L'Estoile	15.00
Chas. Dippe	15.00
Cronstadt	15 00
Denil de St. Grevy	15.00
Explorateur Crampbel	15.00
Gustav Senneholz (true) distinct	15.00
Maurice Mussy	15.00
Martin Cahuzac	15.00
Marquise Arthur de L'Aigle	10.00
Nardy Pere	15.00
Professor Gerard	15.00
Secretary Stewart	15 00
Stadtgartner Senneholz	15 00
Antoine Crozy	8.00
Admiral Courbet	8.00
Antoine Chantin	8.00
Baronne de Sandrans	10.00
Baronne de Renowardy	8.00
Comte Horace de Choiseuil	10.00
Duchess de Montenard	12.00
E. Chevreul	12.00
Enfant du Rhone	10 00
Edward Michel	12.00
Francois Maire	12.00
Geoffroy St. Hilaire	8 00
J. Thomayer	20.00
Miss Sarah Hill	15.00
Mr. Cleveland	15 00
Mlle. Liabaud	12.00
Nelly Bowden	8.00
Princess Lusignani	12.00
Perfection	15.00
Souvenir de Jeanne Charreton	8 00
Statuaire Fulconis	8.00
Trocadero	8.00
Ventura	8.00
Viticulteur Gaillard	8.00
Kaiser Wilhelm	8.00

We will furnish one each of the above varieties, 46 plants for $5.50.

Among Crozy's New Cannas of this season Paul Sigrist is undoubtedly the most distinct and striking novelty. We are the only American house offering this variety to the trade this season. In general habit similar to Mme. Crozy, but of a bright crimson color nearly as rich as Alphonse Bouvier with a very broad golden yellow border. Stock limited, $2.50 each.

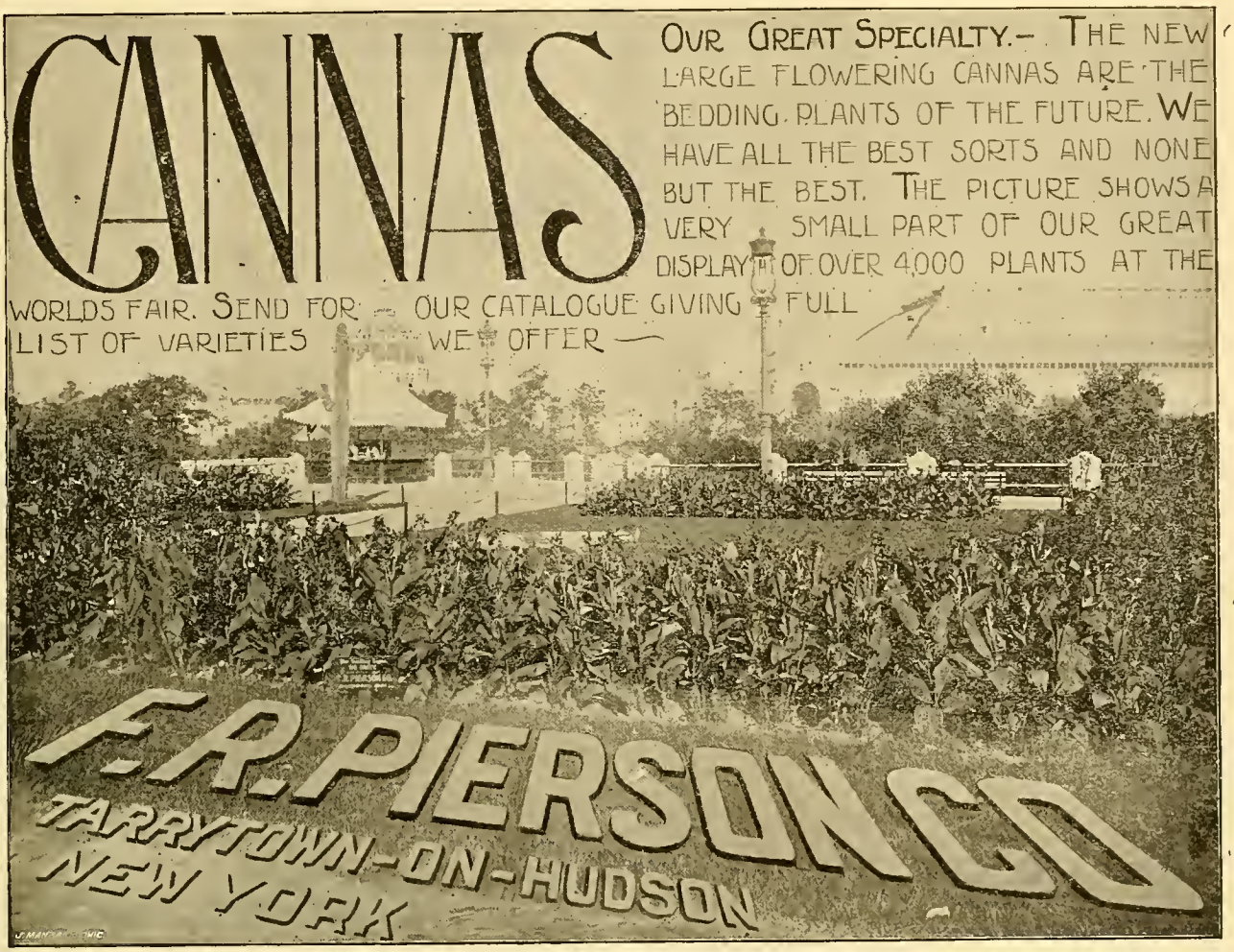
HENRY A. DREER,
PHILADELPHIA, PA.

Pansies.

Fine plants of best strain, just coming into bloom, $15.00 per 1000.

J. T. ANTHONY,
2205 Michigan Ave., CHICAGO.

SMILAX, nice plants in 2½-inch pots, $2.00 per 100; $15.00 per 1000. Transplanted Seedlings, $1 per 100; $8 per 1000. A few hundred Roses—Meteor, Perle and Hoste, 3-inch, ready for a shift, $6.00 per 100.
JOSEPH E. BONSALL, Wholesale Florist, Salem, O.



SPECIAL OFFER to the TRADE

50,000 New Yellow Coleus

GOLDEN CROWN, the most hardy, strongest growing, highest colored yellow to date, 2-inch, well grown, $4 per 100; $35 per 1000; 250 at 1000 rates throughout.
10,000 in 12 other standard leading sorts, plants $1.50; rooted 70 cts. per 100.
10,000 Snow Crest Daisies, $3 per 100; $25 per 1000.
30,000 Mam. Verbenas, progressive type, none better.
5,000 of them Climaxera the Peerless crimson bedder.
10,000 seedlings from our XX and XXX progressive aced will give the most splendid new kinds, all perfectly clean and healthy, 3-inch, strong, fine, in bud, $2.50; flats $1.50 per 100, seedlings same rate; special rates per 1000.
5,000 Vgt. Vincas, extra fine, 3-inch $3; flats $1.50; rooted $1 per 100.
5,000 Giant Scabiosa Snowball, per 100 $1.50; seed, 25c. for large trade packet.
10,000 Gibson's sweet scented hybrid pansies, flats $1; frame $2 per 100; seed ⅛ oz. 50c., ¼ oz. $1, ½ oz. $1.60.
5,000 Gem Feverfew, 5,000 Golden Marguerites, 5,000 Dwf. Lobellias, 5,000 Golden Feather and C. Gymnocarpa, the last two seedlings small pkts. $1.50, rooted cuttings 75c. per 100.
Double Petunias, Dreer's new '93 set and the Queen the best all round double white, rooted, named, labeled, $2 per 100.
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Lots of other good things. Write for what you want. Premium offer for every $5 order: We will put in free 6 Giant Nerina Verbena and 1 Golden Strand Coleus; doubled on every $10 order, and 1 Dak. Primrose, 1 pkt. Double Petunia and 1 pkt. Scabiosa snowball when desired. Price list free. Address, cash with order please.

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OUR NEW ROSE AMERICAN PERFECTION.—This sport will produce twice the flowers than Mermet or Bridesmaid on strong erect stems, and flowers will last a week in perfect coudition, a vivid rose; also the finest bedder among Teas. Try a hundred; you will not repent it. Only $6.00 per 100, $50.00 per 1000, from 2-inch pots. Send a list of your wants. Address

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100,000 Plants of Geraniums, leading kinds, 4, 3½, 3-inch, Coleus, Achyranthes, Dwarf Ageratum, Salvias, Petunias, etc., etc.
1000 Hydrangeas, 8, 7, 6-inch pots, clean, healthy stock. Come and see it. Send for prices to

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	Per 100
Argentea Guttata, Vernon, M. De Lesseps, and other	
Flowering varieties	$3 00
Rex, in variety	5 00
COLEUS, in variety, per 1000, $20.00	2 50
COBÆA Scandens	3 00
Geraniums, none but the best varieties, per 1000, $25.00	3 00
Happy Thought	3 00
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Ampelopsis Tricolor, strong 2 in	3 50
Chrysanthemums, leading varieties, per 1000, $20.00	2 50
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Latania Borbonica.

From 6-inch pots, 24 inches high, with 5 to 7 characteristic leaves.

$1.00 each; $9.00 per dozen; $75.00 per hundred. Price of smaller sizes on application.

NATHAN SMITH & SON,
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20,000 COLEUS, VERSCHAFFELTII and GOLDEN BEDDER (true); 10,000 COLEUS, assorted, in 50 varieties, fine plants, pot grown, ready now, $20.00 per 1000. Cash with order.

C. F. FAIRFIELD, Florist,
SPRINGFIELD, MASS.
When writing mention the AMERICAN FLORIST.

Pittsburg, Pa.

Cut flower trade is anything but brisk, people don't seem to buy so freely as the weather gets warmer. Cut flowers are plentiful; supply more than the demand. Plants for the garden are going a little slow at present.

Elliott & Ulam had the decoration of the banquet given by the Americus Club in honor of General Grant's birthday, which was quite an elaborate affair. This alone put a little life into the business for a few days.

The Florists' Club meeting was rather poorly attended. The committee appointed to see the store men and growers in regard to the chrysanthemum show reported little or no encouragement. The committee was discharged and the show abandoned. A committee was appointed to wait on Mr. E. M. Bigelow to ask permission to hold a cut flower exhibition of chrysanthemums in the Phipps conservatories in conjunction with Mr. A. W. Bennett.

The Phipps conservatories at Schenley Park seem to be the special place for the pleasure seekers on Sundays. There must have been over fifteen thousand passed through last Sunday. The special features now are one large house of calceolarias and another of cinerarias and hydrangeas. Azaleas and Easter lilies have lost their beauty and will be replaced this week by rhododendrons.

Mr. Randolph, of Randolph & McClements, is reported sick.

The warm spell has made flowers and plants over plentiful. This is the case with all kinds of stock and it seems to be selling at what would appear to be anything but remunerative figures. Trade in some of the stores last Saturday was good.

Seed trade in all quarters is reported a good average. A. J. E.

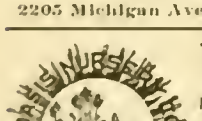
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GRIFFIN'S STRAIN.

Medal awarded World's Fair.

We are headquarters for the above, the finest strain in the world. Send for illustrated descriptive catalogue with copyright engravings. It tells you all about them.

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Special and Hardy Water Lilies of all colors.

VICTORIA REGIA AND V. RANDI, EURYALE FEROX.

Nelumbiums in variety. Hardy Ornamental plants, sub-aquatic plants, etc., etc. Nymphæa Laydekeri rosea (awarded a Medal at World's Fair), most charming of all the Hardy Lilies; $2.50 each.

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12 Choice leading kinds. Large flowering

Two years $1 per doz., $2.50 per 100

Three years $1 " $5.00 "

DAISIES — Snowflake and Snowcrest, distinct kinds, indispensable for spring sales, $2 per 100.

SMILAX SEEDLINGS,

from fall, 75 cents per 100; $6.00 per 1000.

F. A. BALLER, Bloomington, Ill.

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CHRYSANTHEMUMS "THE BEST UP TO DATE"

THROW OUT THOSE OLD TIMERS, AND STOCK UP WITH THE BEST. YOU CAN AFFORD IT AT THESE PRICES.

Plants from 2-inch pots, grown cool, strong and stocky and guaranteed TRUE to name.

Niveus, Pres. W. R. Smith, Mrs. H. F. Spaulding, Ermentilda, J. H. Cliffe, Golden Wedding, Turban, Emily Ladenburg, Miles A. Wheeler, Bryden, Jr., etc. **$6.00 per 100.**

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1 each above 40 varieties for $1.50. 5 each above 40 varieties for $6.50.
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GERANIUMS. Brunnill, La Favorite, Marvel, Beaute Poitevine, etc., 4-inch, extra strong, full of bloom, 75 cts. per dozen; $6.00 per 100. 3-inch pots, fine, 50 cts. per dozen; $3.75 per 100.

CARNATIONS. Tidal Wave, Portia, Hinze's White, Starlight from flats, 75 cts. per 100. Free from rust.

DOUBLE DAISIES. Red and white, from 2½-inch pots, nice plants, in full bloom, $2.00 per 100.

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GERANIUMS, large assortment, my selection, $3.00 per 100.

CARNATIONS, entirely free from disease. One hundred in assorted colors, my selection for $2.50.

PANSIES, from finest seed to be had, $2.00 per 100.

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ALYSSUM COMPACTUM, $2.00 per 100; strong, 2-in.

DUSTY MILLERS (Centaurea Gymnocarpa), $2.00 per 100 for strong 2-inch.

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Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

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Unsurpassed Mammoths, 2½-inch pots	$3.00	$25.00
" " rooted cuttings,	1.25	10.00
General collection, named, " "	1.00	8.00
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Send for price list of Carnations, Chrysanthemums and other florist stock.

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New crop Pansy Seed ready June 25th, better than ever. Cash with order.

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Baskets and **Fern Dishes** for Dinners, Decorations, Receptions, School Commencements, Bon Voyage, etc. purposes, in many pleasing styles, plain and fancy, of Wicker, Willow, natural, gilt or bronzed, Raffia, Celluloid, Silver and Gold Metal, etc., at high and low prices, all cheap for their cost; compare our Fall trade list.

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Immortelles, White and all colors, $2.75 the dozen, natural yellow, $2.00; Cape flowers, best, $1.00 the lb., second size, 60c. the lb.; Wheat Sheaves, Wire Designs, Wire, Foil, Picks, Wax Paper, and all other **Florists Supplies** quoted in our **Illustrated Trade List,** mailed free.

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Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston.

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The Directory

For 1894

IS NOW READY.

Price $2.00.

AMERICAN FLORIST CO.,

CHICAGO.

Denver, Colo.

Spring trade opens up slow.

The Denver Florist Co. have opened a new store at 781 16th street.

The annual election of the Denver Florists' Society was held at the society's rooms April 7. The following officers were elected: President, Mr. John Berry; vice-president, A. M. Lewis; treasurer, Emil Forter; corresponding secretary, Harrison H. Given; recording secretary, Adam Kohankie.

The advance schedule for the '94 chrysanthemum show of the society is out. The society has voted $800 in money for prizes this year.

Mr. Edouard Emmerick is in correspondence with parties in Japan, with the object of securing some more of the beautiful Japanese varieties similar to the one he handled at last year's show and which attracted so much attention.

In spite of the fact that not a florist in the state will make expenses this year a venturesome young man from the east is figuring upon a lease on the ground adjoining the Colfax Floral Co.'s plant with the object of erecting thereon a range of houses. "He'll know better next time."

Mr. Wm. Clark of Colorado Springs, who has been spending the winter in southern California for his health, has returned much improved.

Mr. Hugh Connor, who has been in charge of the rose department of the Colfax Floral Co., in company with Mr. Ernest Flohr, has leased a greenhouse plant in Canon City, Colo., and will grow cut flowers and plants for the mining towns.

Harrison H. Given reports a largely increased mail order trade, but a very poor local business.

For the first time in many months there is not an idle greenhouse hand in the city.

Denver florists are trying to figure out the reason why none of them were able to strike more than 25% of their rose and carnation propagation this year. Some place the blame on the water (they all use hydrant water) and some on the sand, but all agree that something was wrong and that the general strike was way below the average.

The park commissioners have decided to get along without a superintendent this year, the chairman of the board, Mr. John L. Daily, having assumed the duties of that office in connection with those of the chairmanship. Mr. Dailey is by trade a printer, but for the past fifteen years has been a professional politician, having held the position of county treasurer for twelve years of that time and his knowledge of floriculture and forestry is to say the least "rather" limited. As the park commission have over $65,000 at their disposal for the year of '94 the general sentiment is that they are making a mistake in being so exceedingly economical at this time when we have so many idle men in the city and also that they are making a greater mistake in placing the charge of the work that is to be done in the hands of a man who does not profess to know anything about park work or gardening. The city has nearly 100 acres of dedicated park lands that are absolutely unimproved and it looks almost criminal to allow another year to pass without taking steps to improve them.

H. H. GIVEN.

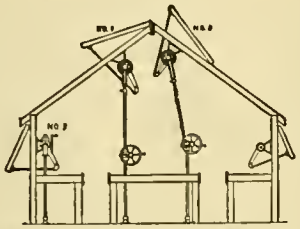
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POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, Youngstown, Ohio.

Fenster Pappe, A Substitute for Glass. Stretch FENSTER PAPPE taut and use batten in nailing on to sash. Then paint the rough surface thoroughly with boiled linseed oil until it shows a gloss. Let it become THOROUGHLY DRY before using, when it is claimed to do service for years. The application of the oil makes FENSTER PAPPE sufficiently translucent for plant life.

IT IS USED as a coveriug for cold pit sash; excellent for use in palm or fern houses; to grow strawberry plants, early vegetables, tobacco, etc., under. A most handy article as a protection against the direct rays of the sun.

TRY a roll of eight yards as a sample, which will cover about four sash, for $1.00. Original rolls, 36 inches wide, 110 yards long, for $9.00. For further particulars address

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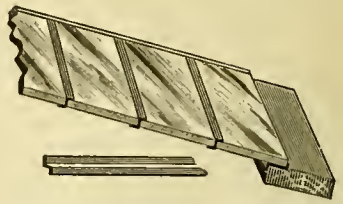
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MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN DO IT NOW.

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Write for Illustrated Catalogue.

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Greenhouse Material

from bottom of gutter up.

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PRICE $2.
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NATURAL GAS MADE GLASS,

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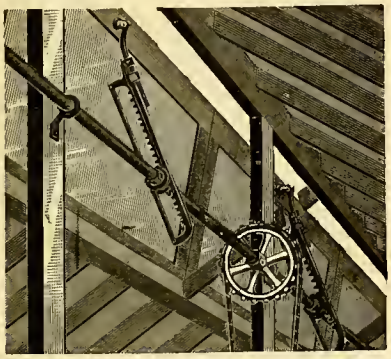
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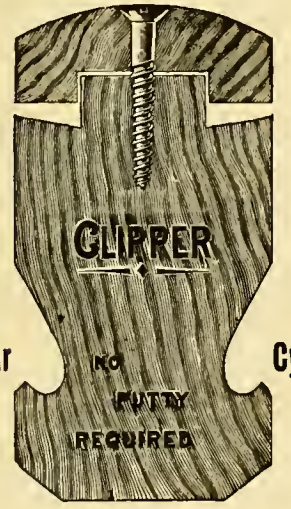
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We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

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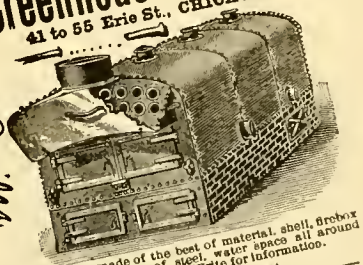
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A special meeting of the Gardeners' and Florists' Club took place on Wednesday which was largely attended. It has been decided to hold another chrysanthemum show the first week in November and the executive committee has materially improved the premium list, new classes have been introduced so as to give all a chance to compete, and the important premiums have been increased. It is hoped that year by year better premiums will be offered, as the interest in the show increases. It is uphill work to educate our busy patrons and friends to the realization and appreciation of our beautiful flowers, but we are doing it successfully. There is little doubt that in a few years this county will excel all other counties in this section, not only for the number of greenhouses, and beautifully laid out gardens, but in increasing interest and love for flowers.

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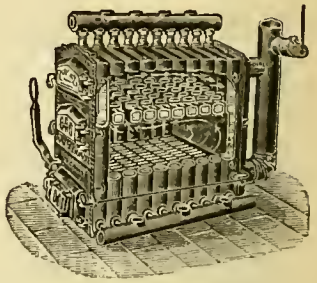
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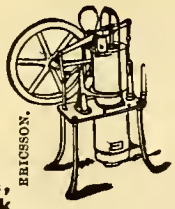
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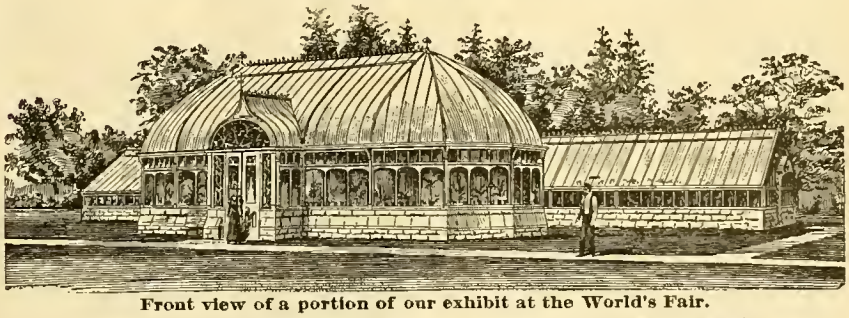
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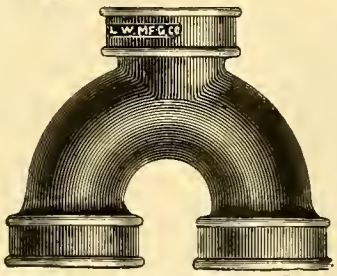
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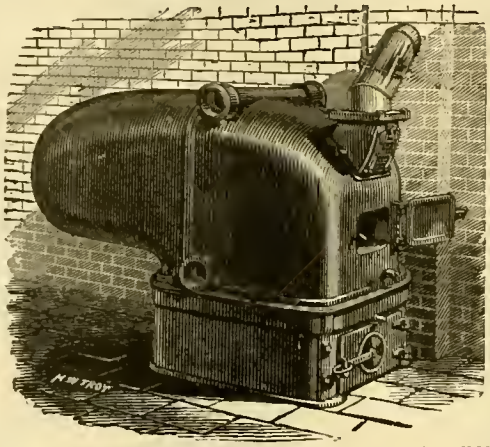
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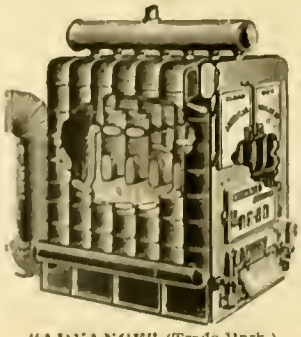
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Vol. IX. **CHICAGO AND NEW YORK, MAY 17, 1894.** **No. 311**

THE AMERICAN FLORIST

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HAVANA, ILL.—Mr. F. Whitty, who has been with G. A. Kuhl, of Pekin, Ill., for several years, has purchased the greenhouses of Mrs. Ann C. Hurd, at this place. He will add three new houses at once.

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The Influence of Flower Shows and Public Parks.

[*Read before the New York Florist Club by Samuel Henshaw.*]

What a change has taken place within the memory of many of us in everything pertaining to the art of floriculture. It is not many years since it was thought necessary to surround a garden with a ten foot wall, and when parks for the public were first proposed some of the old fashioned and conservative people shook their heads, and voted against such an innovation, declaring that if the public were let loose in a garden or park everything would be quickly destroyed, and a barren waste would be all that would be left to look at. How different we find it to-day! I know of only one park that is locked every night, and that is Gramercy Park in this city; this is done as much to retain it as private property as it is to keep the public out. The small park at the Bowling Green, "where Broadway commences," has still the same iron railing around that it had before the revolution, minus the crown which formerly gave a finishing touch to each post. All the rest are open.

The small parks in various parts of this city are gay just now with pansies, daisies, forget-me-nots and other spring flowering plants, together with a liberal use of tulips, hyacinths and other bulbous plants, to be succeeded later with coleus, geraniums, cannas and many of the choicer kinds of plants that a short time since were not considered safe to be trusted to the tender mercies of the public. Where there is water, or a fountain basin, they are made doubly interesting by a liberal use of various aquatic plants; the Egyptian lotus, nymphæas and many of the floating plants are always surrounded by a crowd of admirers; even the street Arabs, newsboys and bootblacks appear to be fascinated by this interesting class of plants, occasionally envying the plants their element, "particularly on a sultry day," and if they can catch the policeman off his guard, taking a dip in the water. Otherwise the flowers are not interfered with, even in the most crowded parts of the city.

Central Park, with its charming landscape effects, always draws a crowd, and is beautiful either in winter or summer, but especially at this season of the year, when there is a freshness and fragrance not noticed at any other time. It seems a pity that there is not more attention paid in this park to the growing of a collection of flowering plants. The newly acquired parks can be left more in a natural state, being farther removed from the dense population that is fast surrounding Central Park, but this will always be, strictly speaking, the home garden, and can well afford to be made as attractive as it is possible to make it. Space should be set apart to lay out a flower garden on a comprehensive scale, without interfering with the already existing plan. In other parks in smaller cities in this country, particular attention is paid to having a well planted and arranged flower garden, where all the rarest and choicest plants available are planted with a lavish hand for the edification of the public. Mention might be made of the chaste and very pleasing arrangement of the flower gardens at Lincoln Park and Washington Parks at Chicago. I do not mean that it is desirable to have too many imitations of globes, gates ajar, or Sol's clocks, done in flowers, but good plants and the best varieties are used in both parks, and reflect great credit on those in charge.

Washington has an endles round of beautilul parks, well arranged and planted; the same may be said of Boston, with its liberal use of native plants for decorative planting, and skilful blending of nature and art. Philadelphia, Allegheny City, Pittsburgh and many other cities are much more liberal than New York in this respect—even Prospect Park, Brooklyn is ahead of us, both in greenhouses for keeping up a constant succession of blooming plants through the winter, and in a summer display of flowers.

It is none too soon for a society like ours to urge the proper authorities to do something on a liberal scale in this direction. New York certainly can afford to make a grander display than any of the cities I have mentioned, and instead of following, ought to take the lead in all the different branches of both floriculture and horticulture. It comes within the scope of this society to make any suggestions that will result in making the parks of this city superior to anything to be found elsewhere. We may expect at some future day when the proposed Botanical Gardens are located and planted, to have a second Kew Gardens belonging to New York, but if these are started at once it will take years to get them fairly under headway; we want something for immediate effect, and this can be accomplished by devoting more space to the cultivation of flowers in Central Park.

The Floricultural display at the World's Fair, which was promised to surpass anything that had ever been attempted in that time, was a great disappointment to all of us. Strangers visiting the grounds set apart for that purpose would come to the conclusion that New York and Pennsylvania could show little else than cannas and echeverias; to be sure there was a very creditable display of aquatics by William Tricker, one of our members, and one of the very best samples of lawn making, was the green setting of the principal buildings shown by the Peter Henderson Company, from seed sown the same Spring.

One of the most pleasing things I have heard of lately is, that one of the rich men of New York has offered to spend $250,000 in the form of a school, or some

way to teach children a more intimate knowledge of our native plants. The more they get to know of plants, either wild or cultivated, the more interested they will become in everything belonging to floriculture. Those of us that were fortunate enough to see the interest taken by the poor Kindergarten children when invited to visit our flower show, where each child had a plant given it to grow and bring back in autumn to show in competition for prizes, will not soon forget it. Many of these same children will cherish the memory of that time; the time will come when many of these waifs will rise in the world, and the interest in flowers started at that time will cling to them for life, probably some of them becoming the best customers of the future florists.

Arrangement of Cut Flowers.

DIFFERENT EFFECTS TO BE PRODUCED WITH EQUAL QUANTITIES OF THE SAME MATERIAL.

Different effects to be produced by judicious arrangement of the same sort of material is a subject that should be studied with a good deal of attention. It frequently happens in the course of business that we receive an order for a number of pieces, let us say baskets, each to cost the same, but to be entirely different in appearances. It often happens at the same time that your choice of material at command is rather limited. It is here that ingenuity and skill come into play. If we are allowed to select our own shapes the matter is not very difficult since a selection of forms entirely dissimilar in style will make our work comparatively easy; but where your customer selects the forms and chooses from your stock baskets, which though not alike in every detail yet are very much alike in general style, we have not quite as easy sailing.

We find it a rather difficult matter to properly illustrate our subject by the photographic process, since by this means we are unable to show the color contrast, which is so important in this class of work. The style of arrangement also is apt to suffer, for in order to illustrate the position of the flowers, the view necessarily has to be taken at such an angle as to make the object look rather squatty and stiff in the low forms of baskets.

The material selected for the arrangements illustrated consisted of the following: 12 La France and 12 Perle roses, 25 lily of the valley, 25 Romans, 25 carnations, one bunch (25) sweet peas, 1 dozen fronds of adiantum and 25 common ferns, with a spray of A. plumosus for the handle basket. As regards stemming all the flowers used are subject to the same rule as was given in the preceding article.

Let us consider the arrangement of the first form, which is that of a high handle basket. Having followed our hints on mossing such a form, that is to the effect of raising the sphagnum pretty well up, we proceed to properly place the green ferns (although as remarked before smilax may be used to good advantage in their place). Remember, we are now considering only the common styles of baskets. Many forms of highly ornamental goods are made up without the green trimming at the outer rim in the way shown here, which forms we shall treat later on. The style of arrangement of this basket is to keep each kind of flowers grouped together. The La France as shown in the engraving, are placed on the left hand side, starting from the center and running diagonally across on half of one side down to the rim. We next arrange the Roman hyacinths alongside in a spray from the center down to the rim. Next we place the carnations (Portia) which carries us up to and past the handle on the right hand side. On the reverse side, which does not show in our picture, the Perles are placed. Next to carnations a spray of lily of the valley separating these from the La France. A tip of asparagus plumosus is thrown lightly over the left hand side of the handle on which is arranged a spray of Blanche Ferry sweet peas. Now we can take this same basket, rearrange our material and give a different character to the design. The treatment of the handle is quite important to bring out the different effects. As a rule we prefer to use only only one kind of flower for this purpose, especially in arrangements such as we have been considering, or those where but one or at least but a few varieties are used. But where a mixture of different material is employed we may safely depart from this rule, though in that case also it is not advisable to use too many kinds.

Suppose we take our flowers and use them mixed together. In that case we might arrange the spray of La France and valley or combine the same rose with Romans or with sweet peas. For green we can change to smilax. We may also make the spray somewhat longer and carry it over the handle, allowing the tip to droop down on the other side. Again by adhering to our first plan to keep our colors and kinds separate we may divide them into smaller groups of irregular number, say the roses in 5 to 7 and the smaller flowers from 10 to 15 and arrange in clumps of irregular shape with a view to proper color effect. In this way we may make up the same identical form in a half dozen or more different ways with the same material and have each one different in character and general appearance.

Our second illustration gives a view of one side of a basket without handle, made of the same material as No. 1. The form is an oblong, rather square at the corners, the rim of the basket being about 4 inches from the bottom. This form is also arranged in sections with the grouping somewhat different. The La France roses in this arrangement are interspersed with the valley on the left hand side, against which, to the right, the Perles are placed, followed by a grouping of the sweet peas. Diagonally across the reverse side we place the carnations with lightly arranged sprays of Romans on either side. This form also may be treated in different ways but being without handle, which always gives character to a basket, is not susceptible to as many changes as the former.

The last form shown is that of a shape somewhat like a market basket with a rather low handle. There are serious objections to forms with a low handle. If we attempt to make a loose arrangement the flowers will come up nearly if not quite to the top of the handle, often hiding this altogether. Such a form cannot be mossed up very high anyway, and if we attempt to arrange our material at such a height as to clear the handle we have to moss the form so flat that the effect is bound to be squatty in appearance. Still in order to satisfy all tastes as much as possible we are obliged to carry a variety of forms in stock and when the buyer has made up his or her mind on a certain form we are often obliged to subordinate our better judgment to the whims of our patron.

Our last illustration shows such a shape made up as loosely as possible, the moss in the form being but slightly rounded up, nevertheless the line to top of handle is but slightly raised above the level of the flowers.

The flowers used in this form are also the same as in No. 1 and 2, but the varieties are mixed together, the hyacinths forming a fringe around the edge while the lily of the valley is run across the handle. To effect a change the sweet peas, either separate or combined with either valley or Romans, can be employed on the handle, but roses would be out of place as these are too heavy for such a purpose. The flowers in the basket proper, are subject to the same variation as given in Nos. 1 and 2.

In all such arrangements as have been under consideration in this article adiantum should be used liberally. Ornamental at all times it particularly aids us in such combinations where color and kinds are grouped separately to break the sharp lines; it enables us to blend one shade into another as nothing else will.

In showing the combinations for effect in the foregoing we selected the various kinds employed at random. Other varieties might be chosen with equally as good if not better results: Thus, if La France is not at hand Mermet, Cusin, or any other pink variety, would fill the bill just as well. For Perle we can substitute Bride, or if yellow is thought desirable there is Buttercup carnation, or daffs and tulips when those are in season. Or substitute red roses of any variety for the same color in carnations. The main point for us to consider is to avoid similarity in appearance of the different forms of designs made up with a limited selection of material. If we confine ourselves to baskets we can call to our aid so many more quite distinct styles from those treated in this article that to describe and illustrate them all would take up far more space than we can give to this series. We shall touch upon this same subject again at some future time when we reach the higher grades of these forms.

The same material treated in bouquet form would give us a decided change. If used in hand bouquet form we have perhaps more material in the number of flowers given than would be necessary. One-half the quantity is sufficient for this purpose, but if we still adhere to the same sorts above mentioned we can follow on the same line of arrangement as laid down on the baskets. The same holds good also regards vase bouquets. In these we can use the full number given and in these we find a good chance for various combinations, though not quite to the same extent as those of basket forms.

Imperfect Glass Burning Plants.

A correspondent writes that after considerable investigation he has discovered that the burning of the foliage of his plants, over which he had been much puzzled was caused by imperfections in the glass.

We imagined that all in the trade were aware of the fact that imperfections in the glass are apt to act somewhat as lenses when the sun strikes them at the right angle and as a result burn the foliage upon which they happen to be focussed at the time.

When building all glass should be carefully inspected and any lights that have whorls or other imperfections should be rigidly rejected. Our correspondent will do well to go over his houses this summer and replace all imperfect lights with perfect ones.

Our correspondent asks if something



HIGH HANDLE BASKET.
ARRANGEMENT OF CUT FLOWERS.

cannot be done to make dealers send out none but perfect glass. All those that make a specialty of glass for greenhouses are aware of the requirements of the trade in this respect and most of them are, we believe, ready to guarantee their glass, at least of the better grades, and replace any lights that prove to be imperfect.

Express Rates.

Complaints reach us that agents at destination often refuse to allow the special rate of 20% less than merchandise rate, though when express has been prepaid the special rate has been allowed.

As the rate, according to the classification, is permissible but not mandatory, the remedy would be for the shipper to stipulate with the Express Co., that the shipment be billed at the special rate before delivering the goods to them. The rate is allowed only on shipments "prepaid or guaranteed." The demands of a large shipper are always more apt to receive proper consideration than those of one who receives occasional shipments, and particularly if the latter is at what the companies call an "exclusive" point, namely, one reached only by their company. But the good will of the large shipper is always sought, because he ships to points that are not "exclusive" as well as those that are, and this gives him an opportunity to discriminate to an appreciable degree against any company whose general methods do not please him.

As of course low express rates stimulate shipments the shipper is serving his own interests by making sure that consignees get the very lowest rate to be had. To make certain that the matter does not escape the attention of the shipper it might be well for those ordering to add to the order instructions to see that the shipment is billed by the express company at 20% less than merchandise rate.

The One Judge System.

Is not Mr. Ewing just a little reckless in his inference that a large majority of the societies and clubs in this country have arrived at the conclusion that one judge gives more satisfaction to exhibitors than three and that a large proportion of those interested in exhibitions in America have adopted the "Toronto plan"?

I will not ask him to explain by what occult power he has discovered that my original assertion was made at random, but coming "down to plain practical experience" of which he truly says an ounce is worth a ton of unsupported assertions, I will respectfully (not "sarcastically") request him to favor the readers of the AMERICAN FLORIST with a list of the societies and clubs giving important exhibitions regularly who have adopted the one judge plan, with the exception of the Toronto organization.

WM. J. STEWART.

Greenfly.

ED. AM. FLORIST: Can you not obtain for the FLORIST an article from Prof. C. V. Riley on the origination of the green fly or aphis. Harris in "Insects injurious to vegetation" does not explain the matter clearly. I find lice on Ipomæa Learii leaves which had just cast the seed shell. The surroundings were clean. It certainly looked as if the egg was in the seed and hatched after the germination. An Argyreia telliæfolia, after expanding the first two leaves and starting the third leaf, the latter was literally plastered with lice. It was impossible for them to have been transferred from other plants. An article from Prof. Riley would be of the greatest interest and I trust you will be able to secure it. F. C. C.

In answer to the above it may suffice to state briefly that plant lice hibernate in the winter-egg state or in the condition of agamic females upon the roots. Most of the summer generation are composed of females only and these give birth to a succession of living young. An occasional winged generation provides for the spread of the species. The sudden appearance of the insects upon greenhouse plants is generally due to the alighting of a winged female upon the plant and the deposition of living young which begin reproducing in a very short time. C. V. RILEY.

Washington, May 7.

Prof. Riley Resigns.

Prof. C. V. Riley, who has been Government Entomologist for nearly twenty years, has tendered his resignation, to take effect June 1. Prof. Riley retires at the request of his family, who feel that he has earned a right to rest from the arduous duties he has so faithfully performed for many years. In his resignation he urges the appointment of Mr. L. O. Howard, who has been his chief assistant for 16 years, as his successor. He will retain, however, his connection with the National Museum, where he is Honorary Curator of the Department of Insects. Dr. Riley has done splendid work during his connection with the Entomological Division of the U. S. Dept. of Agriculture, and he has an international reputation. He has recognized the growing importance of a study of the insects affecting ornamental plants and has always taken much interest in specimens sent him by us for investigation. We deeply regret that he has found it necessary to retire from the position he has so long and so efficiently filled.

DO YOU WANT a list of the cemeteries of the country that use trees, shrubs and plants largely in the ornamentation of their grounds and that are apt to be large buyers of these and other horticultural supplies? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

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Please mention the AMERICAN FLORIST every time you write to an adverti ser.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

During May and June we are always sure of having a glut of flowers, excepting on special occasions, and yet such special occasions occur just often enough to make it worth while carrying the plants along until about July first. It is often a question to know what to do with the flowers part of the time during those months. Often they are rushed in on the commission houses regardless of the supply and demand; this is all right for the grower who has been disposing of his stock in that way all season, but for a grower who has been selling to the stores direct all season to put his stuff into a commission house and expect good returns is all wrong. In the first place the house cannot in justice to those who have been regular consignors place these odds and ends shipments in the market until the others are all disposed of, neither can he use them to break down the market on his regular consignors. If he does these things he is no earthly account either to himself or the trade, and if he does not how can the grower expect to get any respectable returns for his stock?

There are three methods of disposing of one's stock; either by retail direct, selling to retailers, or consigning them to a commission house. Either of them conducted separately makes a nice clean method of doing business; any two or the three of them conducted at the same time makes a disagreeable and annoying method of doing business. He who does one thing well and only one thing well is likely to do that thing much better than if he did other things fairly well. My methods of disposing of surplus stock may not be the best in the world, neither are they, I think, the worst. First, if we are very busy we make up a nice lot and send them to one of the hospitals, some days for one ward, other days for another, the object being to have plenty of them wherever they are made use of. If time is not particularly precious I take a lot out and give them to some sick families who can afford no luxuries. This may not be a dollar and cents way of disposing of your stock, in fact sometimes you will want to add a dollar or two with the flowers, but taking from January 1 to January 1 again, I think you will be better off than if you were to put your flowers on a market already glutted to stagnation.

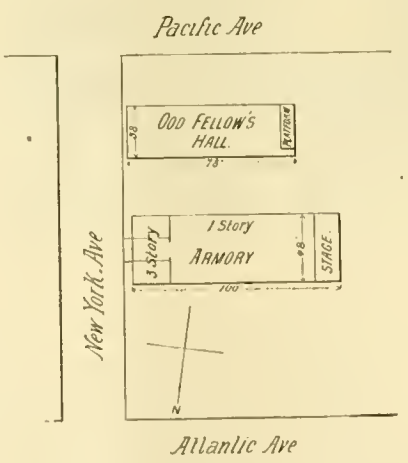
Another point to be carefully watched when flowers become plentiful, is to have them strictly first-class in every way; you are then more likely to get something out of them; if they are worth growing at all they are worth growing well.

When you are ready to pull out the plants, pull them out. Do not leave them to dry up or rot on the beds or benches. Cleanliness during the summer is just as essential to a well regulated place as it is in the winter season. You do not want to make a harbor for all sorts of insects and fungoid growths. If your plants should be affected by the carnation rust do not throw them on a manure or compost heap, but burn them up as completely as it is possible to do, and do not save a vestige to breed the rust for another season. A. M. HERR.

The Convention Exhibition.

The executive committee of the Florists' Club of Philadelphia at its meeting held on Tuesday, the 8th inst., discussed the subject of Halls at Atlantic City for the convention of the S. A. F. next August.

The Morris Guards' Armory and the Odd Fellows' Hall are engaged, these being the only available halls suitable for the meetings and for the trade exhibit, and the question to be decided was—in which to hold the meetings? The Odd Fellows' Hall was said to be too small for the meeting as it only seats 500. But on the other hand it was pointed out that if it was too small for the meetings, it would be even more objectionable for the exhibition. After a full and free discussion it was finally put to a vote and decided that the exhibition should be in the armory and the meetings in Odd Fellows Hall.



The accompanying diagram shows the position of the two halls. They are quite close to each other.

It would seem that the Philadelphia people have decided wisely, for even if the first meeting be a little crowded, that is better than a few hundred people down in the corner of a great big barn with a sense of desolation all around them. A somewhat crowded audience always lends inspiration to the proceedings. There will be plenty of room at the subsequent meetings after the opening session and then the exhibition, even with the larger hall, will not have enough of room. The exhibition feature of the convention becomes more popular every year, and promises to be more so this year than ever before. The attractions of the great seaside resort will undoubtedly take hundreds of florists from all parts of the country who have never before attended a convention, and it is just these men the trade exhibitors want to meet and who will prove the most profitable visitors to the exhibition. The shrewd business men are already making their arrangements for an effective display of their wares at this great occasion. There will certainly be a larger attendance than ever before at any convention and the exhibitors are bound to reap a rich harvest. In this connection it may not be out of place to remind intending exhibitors that size of exhibit alone does not count for everything. A neat, compact, carefully arranged display will give often better results in a small space than a large badly arranged exhibit. It takes time and thought and trouble to plan out a good stand and it cannot be begun on any too soon. All applications for space must be in 30 days before the exhibition opens, so there is only some 8 weeks ahead in which to plan out and get the exhibit under way. A uniform rate of 25 cents per square foot is charged for all space used. Those in charge of the exhibition supply staging, etc., and are prepared to do everything in their power to facilitate effective displays and make the exhibition a grand success. Applications for space should be sent to the superintendent of exhibition, Mr. G. C. Watson, 1025 Arch St., Philadelphia, as soon as possible. Application blanks, rules for exhibitors, and all information promptly furnished on applying to the superintendent. Write him.

Chicago.

It will no doubt be surprising to many when we state upon good authority that the aggregate amount of cut flowers sold in the Chicago market exceeds that of last season by over $40,000, the total gross sales amounting approximately to $525,000. There are at present 10 firms engaged in the regular wholesale business, but one of these being in business only about 1 month, only 9 of them are figured on as doing business the last year. The sales of these 9 firms aggregate the snug little sum of $445,000. The returns from these firms are in most cases verified by the books and can be relied on as being nearly correct. The balance of the trade, amounting to about $80,000, was done by the members of the exchange and quite a number of growers who sell their products to the retail men direct. These figures are based in a number of cases on reliable information but also partly on estimates only. The above figure of $80,000 is therefore only approximately correct, but is rather under than over the mark. These figures do not include a vast amount of stuff that is grown and sold by florists who do a retail business on their premises, or those who operate large establishments for growing their own supply.

The gross amount, exceeding half a million dollars, is quite a respectable showing for this city, and when we consider that an actual gain over last season was made, in spite of hard times and general depression in other lines of business, the result is most gratifying. But whereas the increase in gross sales is less than 8%, the report from wholesale men shows that the increase in the amount of stock sold is no less than 30%; indeed a number of houses estimate the increase at a much higher figure, but even taking this low estimate of 30% it must follow that the average prices realized have been considerably less than last year.

How much of this stock is sold for consumption in this city, and how much of it is grown here, is a question pretty hard to figure out. According to estimates made by wholesale men who do a shipping trade about 25% is sent out of the city, while two firms report 60% as their shipping trade; others have only 20 to 25% and some of them do an almost exclusively local business.

As to the amount of stock shipped in



ILLUSTRATION NO 2.
ARRRANGEMENT OF FLOWERS.

from outside points some houses report this to be largely in excess of outgoing shipments, while others handle exclusively homegrown stock. On figures obtained we cannot venture to give any percentage which would give a correct idea; it is however safe to state that the incoming shipments amount to less than outgoing ones. We subjoin a few remarks on the trade by wholesale men.

Kennicott Bros.: Amount of business larger than last year. Amount of stock handled fully 33% larger than ever before, but prices obtained a good deal less on average. In roses, Beauties were in first-class demand, with average fair price, first quality largely for local demand. Good demand for red roses such as Meteor and Wootton for most of the season. Brides in fair demand. Pink sorts such as Mermets, Duchess, etc., didn't average as good in demand. For La France demand almost entirely local; little shipping done in this rose. Violets scarce most of the season, demand brisk and supply short, prices good. Bulbous stock, no demand except for valley, prices for the former not paying for bulbs. Harrisii sold in large quantities, average prices low. No demand for spring flowers. Incoming shipments largely in excess of outgoing, the latter not as large as formerly. As compared to aggregate amount sold, about 30%.

J. B. Deamud & Co.: This firm being in business a little less than a year no comparison with last season can be made. Last season's trade very satisfactory. Prices obtained considerably less than realized on some grades formerly. Beauties, of which large quantities are handled, were always in good demand, and brought fair prices. Violets in great demand, supply short. Red roses and Brides, in small roses, mostly in demand, supply often short. La France and Albany, if fine, in good local demand, but little sale for inferior stock. Little shipping trade in these roses. Valley fairly good in demand. Romans very low in price and small demand. Harrisii sold well but prices very low. Stock handled entirely homegrown, shipping trade about 30%, mostly in the smaller kinds of roses.

Corbrey & McKellar: Amount of business showing an increase. Beauties in steady demand at good prices. Hybrids, except good Brunners, slow. In smaller roses, red had the call most of the season, Meteors and good Woottons being often short. The glut affected the pink varieties more than other sorts. Carnations in uniformly good demand and call for fancy sorts constantly increasing; prices for this flower satisfactory. Bulbous stock, no sale. Violets, demand brisk, supply short. Orchids, the various sorts of cattleyas sold well, but demand for other forms slow. Shipping trade about 40%.

Reinberg Bros.' aggregate amount of business was in excess of last season. Beauties in the lead. Although large quantities of these roses were offered last season, the supply was constantly short of demand; prices satisfactory. Red roses most in demand, Meteor particularly being often very scarce. La France of A 1 quality in good local demand. Shipping trade constitutes about ⅓ of the business. These orders call mostly for fair grades of the smaller varieties of roses such as Mermets, Brides, Perles, Meteors and Gontiers and good stock of the commoner varieties in carnations, fancy sorts mostly for local trade. No stock from outside points is handled. Large increase in the amount of stock handled.

The Niles Center Company reports a good business. This is a company of growers who handle their own stock principally. A large shipping trade is done, being about 60% of the gross sales. Beauties in good demand, selling at fair prices. Jacques when first brought in the market sold well at good prices but the latter part of the season prices realized were low. The same in hybrids. Violets in great demand, mostly short in supply, prices good. Carnations in good supply and demand. Bulbous stock very unsatisfactory. Good demand for Harrisii but prices very low. Mignonette the early part of the season in good demand realizing fair prices.

A. L. Randall: Amount of business about the same as last year. Stock received is mostly from local points. Shipping trade about 20%. The demand for first-class Beauties is almost entirely local, little if any being shipped out. In small roses Meteor takes the lead, the demand being generally far in excess of supply. Violets always in good demand,

prices realized satisfactory to the growers. Carnations, supply large, quality good, sales satisfactory. Bulbous stock a drug. Considerable increase in amount of stock sold.

E. H. Hunt: Business satisfactory. Considerable stock is received from outside points and large quantities are shipped out, being about 60%. The same points are made here as noted in every instance. Red roses in the class of smaller roses taking the lead, while the pink sorts generally suffer more in a glut than other varieties. This house is receiving some good Kaiserin which sell well. La France is in good local demand, but no calls are made for shipping. Violets here, as elsewhere, met with brisk demand. Bulbous stock, the old story, no demand. Harrisii sold fairly well but at very low figures. Carnations very steady for the season, average prices much better than roses.

Olsen & Hughes and Prince & Co., report a growing business, and in respect to market conditions their experience is about the same as those quoted above.

All the members of the new exchange handle their own stock severally and do entirely a local business, and so do those growers who sell to the store men direct, still there are perhaps a hall dozen, more or less, shipping their product to other markets.

To report the market as extremely dull has become rather monotonous of late. The first part of the week business was probably as dull as it could possibly be, towards the end, however, a change for the better was noted, in fact on Saturday everything was cleaned out and on Sunday morning some of the dealers experienced some difficulty in obtaining stock to fill orders.

The continuous warm weather, with the thermometer mounting into the eighties on several days, has had a very enervating effect on stock in general and roses in particular; the latter begin to look very tired. Mermet is putting on her summer complexion, not at all becoming, though a few growers are still sending in some blooms of fair color. Bride is running considerably smaller. Meteor, on the other hand, seems to glory in the warm weather and is at present one of the best roses on the market. La France are also fair. Gontier is played out for the season. Jacqs are almost entirely cut out; there will be but few flowers of these until the outdoor crop comes in. Beauties are still very good, but these also show the effect of the extreme warm weather, running rather uneven in color.

A good deal of the stock is becoming badly mildewed. In a general way we have noticed a much smaller percentage of mildewed stock this season than in former years. This would prove that our growers have learned how to keep this pest in check to a much larger extent than was the case in past seasons, when clean stock used to be the exception and not the rule.

Prices in the different rose classes remain relatively the same as last week. Carnations are in good supply with generally fair quality. Demand for these is steady at prices of last quotations. Harrisii at present are not over plenty. Longiflorum is coming in freely and which takes the place of the former to some extent. These sell at $5 to $8. The few violets offered at present are worthless.

Spring flowers are in small demand. Lilac is not nearly as abundant this year, owing to the severe frosts in April, which killed many of the flowerbuds. Outdoor valley is still coming in in large quantities and at $1 per 100 is generally sold out pretty clean. Tulips are mostly gone, only a few Parrots, Gesneriana and late doubles are remaining, these move very slowly.

Growers and dealers in bedding plants are hustling at a lively rate. Generally speaking it is not considered safe in this latitude to bed out any thing except the most hardy varieties before the last week in May, but this spring the weather has been so uniformly warm and pleasant, in consequence of which outdoor vegetation has made such a rapid advance, that apparently the season is two weeks ahead of the ordinary time. Under these conditions it is quite impossible to persuade the purchaser that it is early and rather risky to venture on bedding out such tender varieties as coleus, heliotrope, etc. We noticed a number of beds of these plants set out last week and if these should live to see the first day of June without encountering some frosty nights it will probably be the first season of the kind.

A meeting of the Florists' Club was held at the rooms of the new Cut Flower Exchange on Thursday last. The trustees, in whose hands the selection of a suitable place for holding the meetings in the future was entrusted, failed to make a report, so until they do the club will meet at the above quarters. The several offers made by wholesale men to hold these meeting at their places of business was considered, but the expression of opinion by those present were nearly unanimous in favor of establishing headquarters for the club in some suitable down town locality where the club would have a home of its own.

There has been some lively letter writing going on in connection with the removal of President Waller of the Lincoln Park Board. In his letter of removal Gov. Altgeld took occasion to cast some reflections upon Gen. Fitz-Simons, a well known citizen interested in the construction of a portion of the Lake Shore Drive, the work having been done through an arrangement with the Park Board. Gen. Fitz-Simons replied in a red-hot letter through the daily press. The following comments on the same by the Chicago *Herald*, the leading organ of the political party of which the governor claims to be a member, though he is now flatly repudiated by all its best representatives, will be of interest:

We presume that no such open letter as that sent by General Fitz-Simons to Governor Altgeld ever before was addressed or at any time printed by a private citizen in regard to the acts of the chief executive of a great commonwealth. The reason whereof is plain. Never before has the chief executive of a great commonwealth assumed a role at once so dictatorial and so petty. Governor Altgeld combines within his own entity the principles of czarism and anarchism. His anarchism he desplays to the rabble; his czarism he manifests by despotic interference with the commissioners of parks, the trustees of charitable institutions, and other appointed officials, who by law are as independent in the discharge of the functions of their offices as he is in the discharge of the high duties of his exalted position.

To lawlessly meddle, to needlessly nag, to causelessly provoke, has been Altgeld's policy from the day in which he published a vile diatribe against an honored judge who had prevented his acquirement of a large sum of money from the city treasury to the day in which he bullied the West Park commissioners into the selection of the Garfield Park racetrack's tool to the office of secretary, and to the later day in which he strove to bully the North Park commissioners into the discharge of a faithful superintendent that one of his own heelers might take the place. In short, from first to last, the governor's policy has been personal, and necessarily has begotten personal criticism. The commonwealth of Illinois is disgraced by the feuds between its governor and certain of its honored citizens. But it is the governor who has made the feuds inevitable the citizens have no option between submitting in unmanly silence to his aspersions of their character and to his usurpations of their rights and a spirited reply to his insolently verbose abuse of official correspondence.

It is needless to comment at length upon General Fitz-Simons' reply to the governor's abuse of official correspondence. In a letter to Mr. Waller, a park commissioner, Altgeld needlessly, untruthfully and libelously assailed the character of Fitz-Simons and others. The answer is before the people. General Fitz-Simons is one of the gentlemen who can say as Byron said to the Scotch reviewers, "I, too, can write." He has written. Governor Altgeld has boasted of a thick hide, invulnerable, as he says, to newspaper criticism, but if the barbs of Fitz-Simons have not pierced his epidermis then is it brazen indeed.

Mr. Waller took more time to prepare his reply to Altgeld's insulting letter and it appeared in last Sunday's papers. In it he covered minutely his every act while president of the board and gave in full his correspondence with the governor and the substance of the several interviews with him about park matters. Mr. Waller sums up the case as follows in the concluding sentences of his reply and the governor's letters fully prove the truth of his statements as to cause of removal.

I have been removed from office for a single offense—my refusal to allow you to dictate in regard to the discharge of official duties for which I am responsible. You desired to make the management of the park subservient to your personal interests through the removal of the officers of the board, regardless of the interests of the public. I did not consider this consistent with my duty to the public, nor did I feel at liberty to desert my post through a resignation. The result was not unexpected on my part. Malicious and false charges are published in the public press by you in your official capacity, which capacity alone calls for an answer on my part to any charges made by a person of your well known mental and moral characteristics.

In this, as in many other of your official acts, you have prostituted this high office which you hold to the gratification of personal malice.

Your administration is the greatest load which the party which placed you in office, but which you do not represent, has ever been compelled to carry in this state.

I am content to leave this issue between us to that last tribunal, the people, whose interest I have endeavored to protect and serve.

Superintendent Pettigrew is still hard at work getting matters into such shape that the park will suffer as little as possible when he is obliged to go.

The South Park Board has appropriated $75,000 for the building of new conservatories in Washington Park. Plans are being prepared by C. B. Atwood which will be considered at the next meeting of the Board.

New York.

There was a very good attendance at the Florists' Club meeting on Monday evening to greet Mr. Henshaw and listen to his paper on the influence of exhibitions and public parks.

Previous to the reading of the essay reports of several committees were acted upon. Ernst Asmus reported for the committee on smokers that Mr. John H. Taylor would take pleasure in inviting the members to a smoker on the second Monday in June. He said that Mr. Taylor proposed to set a good example by providing an entertainment such as might be duplicated by other members without overburdening them and that the program would be something entirely new and novel and which no one could afford to miss.

Mr. Weathered reported for the committee in charge of the matter of resolutions on the death of Thomas L. Russell, and Mr. Stewart presented similar resolutions for the committee on the death of Myron A. Hunt, both reports being unanimously adopted by a standing vote.

C. L. Allen announced that the executive committee was making progress in the matter of a chrysanthemum show for next fall and further recommended on behalf of that committee that the club withdraw its claim against the Madison Square Garden Company in connection with the spring show of 1893. An explanation of the committee's reasons for coming to

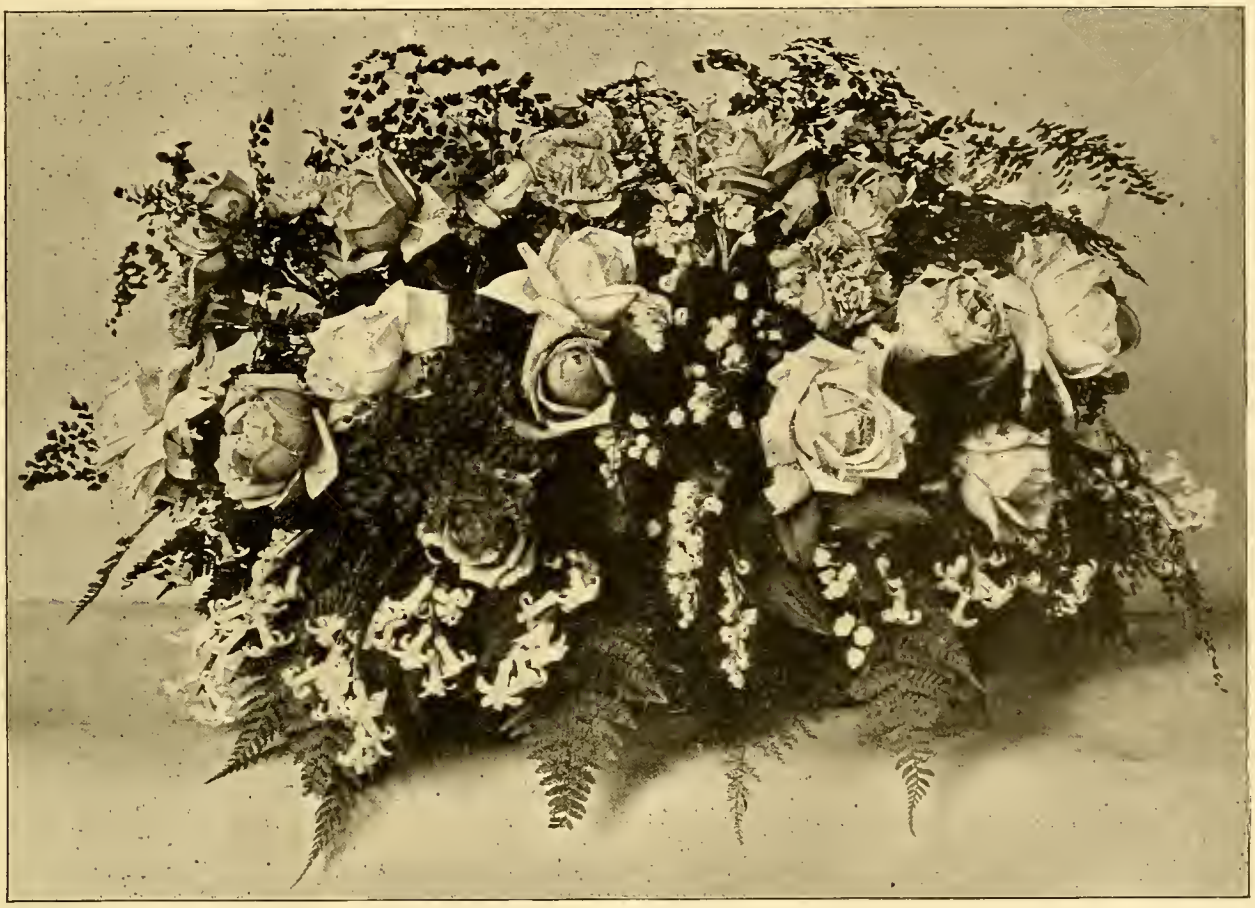


ILLUSTRATION NO. 3.
ARRANGEMENT OF FLOWERS.

this decision was called for and given after which the recommendation was adopted.

Mr. Henshaw was then introduced and read his paper, which appears in another column, and which was listened to with close attention. In closing Mr. Henshaw told of public parks in England with which he was familiar where the people are reminded by sign boards that it is their own domain and reminded of the folly of destroying property belonging to themselves, with the result that no policeman has ever been required to protect the plants or flowers. He made a strong plea in the interest of flower exhibitions and pronounced these as the most effectual means of educating the people to a full appreciation of horticulture and referred most hopefully to the future of the flower trade.

Mr. Wallace made reference to the increasing complaints of people stealing plants and flowers from the New York parks. Mr. O'Mara suggested as a remedy "that we turn the matter over to the preachers." Mr. O'Mara spoke also of the widespread effect of one well kept garden in a neighborhood and advised the giving by plant growers of their surplus stock to village improvement societies and similar organizations as a course that would surely make a grand return in the future. C. L. Allen spoke in a similar vein and urged that the club could make a strong point by trying to induce the park commissioners to pay more attention to decorative plant work.

A vote of thanks to the American Florist Co. for a copy of the Florists' Directory was passed with the request to the secretary that he bring the book to every meeting for the edification of the members.

Cut flower trade is exceedingly dull in both wholesale and retail lines with no indications of immediate improvement. Roses are becoming less plenty and in quality they average very poor. A party named Josephs, hailing from Brooklyn, is said to be playing quite a confidence game among the growers of Jersey City and elsewhere, obtaining goods which he sells at less than cost price but for which he never pays. Watch out for him.

Philadelphia.

Business is falling off rapidly and each week seems duller than the last. There are plenty of flowers, although many growers have stopped sending in, being too busy with spring bedding plants to pay attention to their cut flowers. Prices for all kinds of stock are about the same as last week. The warm weather is commencing to tell on the quality, but some very good roses are still to be had. Beauties and Belles are now the favorites, the hybrids being all done. Sweet peas are very abundant. The first cornflower of the season was sent in by W. P. Carre, of Mantua, N. J.; it was very fine.

Harry Weiss, of Wayne Junction, has purchased three acres of land at Hatboro and is moving his establishment to that place.

In commenting on Mr. Scott's very excellent paper published last week his ideas were heartily endorsed by several of the leading growers about here. The opinion seemed to be unanimous that in large cities where there was keen competition store-keepers had to have the best stock and as a rule they had to buy it from some of the growers who made a specialty of the kind they wanted, even if they had a country establishment of their own, as flowers from their greenhouses nearly always suffered by comparison with those of the simon pure grower. People who want good flowers and are willing to pay for them may be put off for a time with fair ordinary stock, but as soon as they see something better they want it, and the old dealer loses his customer. It was contended that the grower should never think of going into the retail business, nor should the store man essay to be a grower, for while they were two branches of the same business they could not be profitably conducted under the same management.

W. K. Harris is a great lover of animals of all kinds; not only does he like the domestic beauties of the stable and the farm, but the proud denizens of the forest and the jungle also come in for a share of his admiration. The circus was in town last week, and it goes without saying that Mr. H. was there. On these occasions his greatest pleasure is to feed peanuts to the elephants, and the way they extend their trunks is a sight worth seeing; it does not take the herd long to find out their benefactor is there, and as bag after bag disappears, for he never breaks a package, the small boy looks on in wonder and as his stock diminishes

the circus man, all smiles, hurries his attendant out for another sack. K.

Boston.

Dull times. Everybody says so and it must be true. All are looking forward with hope to Decoration Day, for which they are waiting with as much patience as possible. The hope however, is mingled with much uncertainty, for the unusually early season has put much of the outdoor bloom which is ordinarily relied on for Decoration Day, out of the question. Lilacs, outdoor valley, tulips, poet's narcissus, spiræas and magnolias will have disappeared long before the day comes round.

Rhododendrons will be in full blast, a very rare occurrence for this section. The early ones are already showing color and hardy azaleas are in bloom. Some lucky growers will have quantities of Astilbe japonica in for Decoration Day and they are assured of good returns this time.

The exhibition at Horticultural Hall on May 12, was confined mainly to hardy flowering plants native and foreign, wild and cultivated, a line in which the number of contributors seems to be rapidly increasing. Many plants native in other sections of the country have been introduced here by these enthusiasts and these add much to the interest and value of the exhibitions. The only plants shown on this occasion were two well grown specimens of Dendrobium thyrsiflorum from W. P. Winsor, who also exhibited cut blooms of another and very beautiful form of this showy orchid.

Auctioneer McCarthy tells us that the plant buyers have struck in a week or ten days earlier than they did last year. A larger number of growers than ever before are making consignments of plants for auction sales, and prices while somewhat lower on some things are yet good enough to indicate that buyers do not propose to let their gardens suffer on account of "trade depression."

Visitors in town: Hugh Dickson, of Belfast, Ireland; J. R. Fotheringham, of Irvington, N. Y., and Frank Hamilton, of Tarrytown, N. Y.

St. Paul, Minn.

Summer is here at last and all the florists are busy. Quite a good deal of planting out has been done already and a great deal more remains to be done. There being comparatively few hardy shrubs and roses here, the demand for bedding stock, as well as window and porch boxes and lawn vases, is large.

Stock about town is abundant and looking exceedingly well. An early Easter made room for bedding stock and favorable weather since has brought it on in good shape. Prices are fairly firm and we hear of no plants being sold at such ridiculously low figures as in Minneapolis, where it is reported, geraniums in 4 and 5-inch pots are planted out at $5 per 100, coleus at $1, and other plants in proportion. Any florist who will sell at such prices "cuts his own throat," so to speak, and does the trade more damage than a hundred department stores.

In cut flowers the trade has been good and prices remain firm. The engineers convention which met here during the week has created more or less demand for flowers. Added to this is the usual number of May weddings, also considerable funeral work, so that the week as a whole has been a busy one.

We recently had the pleasure of visiting the establishment of Mr. Fred Busch in Minneapolis and found much to interest, please and instruct. He is the largest grower of vegetables for the market in the Northwest and has 60,000 feet of glass devoted to this industry, besides 60 acres of land under the highest cultivation. But it is the greenhouses in which we are chiefly interested. Two of them are each 200 feet in length by 35 in width running east and west, consisting of one span to the south with a gentle slope. In these houses we found tomatoes of the Lorillard variety 12 feet in height loaded with luscious fruit, cucumbers of the White Spine variety, just coming into fruit and laden with a heavy crop. Part of one house is devoted to wax beans which are just full of heavy clusters of long yellow pods.

Another range of 9 houses extending north and south is also filled with cucumbers. In these lettuce and radishes are grown during the winter months. Other houses contained parsley, cress, rhubarb, mint and other table delicacies. Mr. Busch's output is enormous, but he finds a ready market for his products in the Twin Cities, Duluth and Chicago, in fact has many orders which he cannot fill.

The houses are well and substantially built and kept scrupulously clean and tidy. Cypress sash bars, red cedar posts and double A glass are used exclusively.

A simple, light and durable ventilator lift of his own invention strikes us at once with its practicability and cheapness and is suggestive of the alert and active brain of its inventor. The whole plant is supplied with steam heat generated by three immense boilers and supplied throughout with water from artesian wells.

In addition to these he has large washing and packing rooms, where every convenience and contrivance to facilitate the handling of his enormous crop is to be found. The business is entirely under Mr. Busch's personal supervision and every detail is scrutinized by him.

Some of our florist friends could profit by Mr. Busch's methods and all would certainly envy his houses. The large ones especially would be fine for growing roses.

Mr. Busch however is well satisfied with the vegetables and would not care to exchange with the florist and his Christmas and Easter harvests, for his harvest is perennial and as fast as one crop is exhausted another takes its place, so that the houses both summer and winter are producers and the products at all times find a ready market.

Besides being a hustling, active business man Mr. Busch is genial, entertaining and hospitable, socially. His library is well supplied with books on floriculture, horticulture and vegetable culture, and he is keeping abreast of the times in all.

Cincinnati.

At the monthly meeting of the Cincinnati Florists' Society after the routine business had been transacted, the society was favored with a paper by Wm. Murphy, a member of the society, on his recent trip to California. The paper gave minute descriptions of all points of interest, and a bath in "The Great Salt Lake," Utah. The essayist was heartily applauded and a vote of thanks tendered.

Mr. Richard Witterstaetter followed with a few well chosen remarks in which he reminded the members that Decoration Day was nearly at hand, and moved that a committee be appointed, whose duty it should be to see to it that the grave of Mrs. Hulroyd, "who had in the goodness of her heart presented the florists with this floral market" be appropriately decorated with the best flowers produced in this market. Said committee was appointed.

A vote of thanks was also tendered the AMERICAN FLORIST for a copy of their trade directory.

Trade has been very quiet. During the past week Mr. H. A. Kresken had one very handsome floral piece representing an urn, made principally of roses, lily of the valley, callas and adiantums. The height of the emblem was 4 feet, surmounted by a dove, and was given by the Duckworth Club, the occasion being the funeral of Geo. Duckworth. Numerous other designs were also seen at this funeral.

As the May musical festival opens on the 22nd the retail florists expect to do lots of business. E. G. GILLETT.

To move the Surplus.

In view of the heavy surplus of flowers with which the market is now burdened would it not be well for the retailers generally to give the public a chance to enjoy flowers at moderate rates, letting it be thoroughly understood that the concession is a special one and that the low prices will prevail only during the time that the market is overloaded?

Would not the insertion of the accompanying advertisement by the leading re-

FLOWERS.

Just at present we have an unusually heavy crop of flowers and can afford to sell them at

Half usual prices.

For the present choice flowers are within the reach of the most modest purse.

This week

Is the time to buy flowers. For after the present heavy crop is gone we shall have to put prices back to their usual level.

SMITH, The Florist,

. . . 124 Brown Street.

tailers in their local papers bring out enough additional buyers to make the returns from sales larger than at present and without doing permanent injury to rates? Will it not be wise for the retailer to follow a little closer the fluctuations in the wholesale market, particularly where these fluctuations are very marked? If this is done, to get the full benefit, it should be supplemented by advertising in the local press, for unless the people are thoroughly informed of the special concession it will be of no value to the dealer.

If any of our readers try the suggested adv. or something similar we should be glad to hear what the results were. Certain it is that the retailer can afford to offer at 50 cents a dozen roses that he can buy at $2 a hundred and if he can sell 100 dozen at 50 cents a dozen and only 20 dozen at $1 a dozen the lower rate is the most profitable to him and the results will be equally satisfactory to the grower through a disposition of a larger share of his product.

The adv. in the local daily might with advantage be supplemented by a circular to all who are known to be occasional flower buyers.

An effective means of calling out buyers at times of surplus that we know to have been used was the presentation of small

sample boxes of flowers to a selected list of flower lovers. In each box was a card on which was printed "With the compliments of —— ——, Florist." In most cases (this was in a city of moderate size) the recipients called the next day in person to thank the florist for the present and that was when he got his returns. He explained that his stock was very large just then and he could afford to be generous. "Just now," he would add "I can afford to give two dozen roses for the price I have to charge for one at other seasons, and knowing your fondness for pink roses I felt I ought, while it was in my power, to give you the full measure that was necessarily short when flowers were scarce and high." The result was almost invariably a sale of flowers to the value of a dollar or so, the ladies being unable to resist the temptation to secure a bargain.

Nearly every woman loves to have flowers in the house at all times and they will always gratify their taste if they can do it at "cut rates." But let it be well understood that the low rates are for a brief period only.

St. Louis.

Trade for the past week has been brisker than usual, planting out has been going on very extensively, and many popular varieties have been exhausted at different establishments. Cut flower trade remains about the same; there were several heavy funeral orders from out of town points that materially helped the market.

There was a rather slim attendance at the regular club meeting, owing to the amount of work going on. The minutes of the special meeting called to take action upon the death of Mr. Hunt, were read, and all the actions approved. It has been decided by the trustees of the Shaw Estate to offer the medal for the coming season for a new plant of decided merit, limiting the competition to no one class, and relying upon the judges to make the proper selection.

Some very good chrysanthemum blooms were shown by Mr. Halstead, of Belleville. Complaints are being heard from several parties in regard to their chrysanthemum plants throwing flower buds instead of growing as they should.

Mr. Witten of the Missouri Botanical Gardens, has been requested to favor the club with a paper on the relative hardiness of plants under northern and southern exposure, and will doubtless do so at the next meeting. K. F. T.

News Notes.

COLLEGE HILL, O.—George Magrie is succeeded by the firm of Magrie & George.

SAN FRANCISCO.—The affairs of the firm of Carbone & Monti are in the sheriff's hands.

RAHWAY, N. J.—Wilbur Leonard has started in business here. Address is P. O. box 529.

BROOKLYN, N. Y.—H. Ericksen, formerly of Blue Island, Ill., has started in business here at 84 Maspeth avenue.

HANNIBAL, MO.—Garner Bros., of Kansas City, are establishing a branch business here. They are building three greenhouses 18x80.

HELENA, MONT.—Mrs. L. J. Wells has taken personal charge of the Wells' Conservatories, the former manager, Mr. Carter, having resigned.

ORANGE, N. J.—T. H. Spaulding has been dangerously sick with pneumonia. He is still confined to his bed but has been pronounced now out of danger.

JOHN SPEELMAN, of C. J. Speelman & Sons, Sassenheim, Holland, has completed his American trip and sails for home by steamer Maasdam on the 19th inst.

LOUISVILLE, KY.—The greenhouses and stock of the late A. Lauer have been purchased by Mr. Fred. C. Haupt, proprietor of the Louisville Floral Bazaar. He will continue the business at the old location.

LOUISVILLE, KY.—R. T. Lewis has started in commercially, at corner 9th and Madison streets. He built a house 20x130 last fall and is now adding another 30x130. The latter will be devoted to roses exclusively.

VINCENNES, IND.—Mrs. W. A. Reiman has purchased the greenhouses and stock of Mr. J. A. Balmer. She will now have nearly 11,000 feet of glass. It will be devoted mainly to roses and carnations. Mr. Balmer goes to Pullman, Wash., as horticulturist of the Washington State Agricultural College.

YOKOHAMA, JAPAN.—Our gardens are now (April 19) at their best, which is rather early in the season. Most shrubs have finished flowering, namely single and double flowering cherries, coryolopsis, Jasminum Sieboldi, camellias, Forsythia suspensa, Daphne odora, magnolias in variety, spiræas in variety, etc. Maples are lovely now. L. Boehmer & Co. will have 5,000 Pæonia arborea in full bloom in about a week.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By young man of slight experience with florists. References. Address NELS PETERSON, 79 S. Jefferson St., Chicago.

SITUATION WANTED—As assistant gardener and florist; 6 years' experience in all branches; good references. E. ADEY, Flatbush Station, Brooklyn.

SITUATION WANTED—By a gardener and florist, five years' experience; private or commercial place; references. GARDENER, care Am. Florist.

SITUATION WANTED—By young German florist; sober and reliable, good worker; catalogue trade preferred; steady employment; state wages. Address M, care American Florist.

SITUATION WANTED—By experienced cut flower and plant grower, age 32, married; steady place now or later; state wages. Address C. ERNEST, 139 Melrose St., Chicago.

SITUATION WANTED—By young woman to learn general greenhouse work; Wisconsin or neighboring states preferred. Address MISS MIRIAM JEWETT, Sparta, Wis.

SITUATION WANTED—By thorough practical florist and gardener; well up in all branches, gentleman; private or commercial place; No. 1 rose grower; best references. G. W., box 38, Brooklyn Village, O.

SITUATION WANTED—By competent florist and gardener, well posted, single man open for engagement. Full particulars in answer must be given. Address W B K, 920 Spring Garden St., Philadelphia, Pa.

SITUATION WANTED—By first-class designer, also willing to make himself useful in greenhouse if necessary; single man of 30; first-class references. Will work for moderate salary if steady place. Address C W, care American Florist.

SITUATION WANTED—To take charge, by a single man; life experience; a fine grower of roses, carnations, violets, and plants. Also making up. Good references as to ability and moral character. State wages, etc. FLORIST, 129 N. Clark St., Chicago.

SITUATION WANTED—By experienced man as working foreman in retail commercial establishment. Well posted in roses, carnations, chrysanthemums, bulbs, palms, ferns and all the requirements for supplying a first-class store. Address, with all particulars, H. STOCKING, care Wilshire Bros., 654 Sherbrooke St., Montreal.

SITUATION WANTED—By a gardener and florist; 35 years of age; life experience; 16 years in this country, as headgardener or manager; thoroughly versed in all its branches. Also in mushroom culture. Would like situation in any of the eastern states. For information or reference please address GARDENER, care Wm. J. Stewart, 67 Bromfield St., Boston, Mass.

WANTED—Active man experienced in growing roses, etc.; also for general plant trade. COLIN SKINNER, Davisville P. O., North Toronto, Ontario, Canada.

WANTED—An experienced man to propagate and grow catalogue stock, including roses (no bloom), one who can direct help; must be temperate. WEBSTER BROS., Hamilton, Ont.

WANTED—To buy a boiler and pipes for hot water heating with capacity of heating at least four 100-foot houses. Give lowest cash price. Address A. C. LAMPRECHT, Ashland, Ohio.

WANTED—Two young men to assist in greenhouse work. Wages $20 a month and board. Must have had some experience. POEHLMANN BROS., Morton Grove, Ill.

WANTED—A good all-round man to grow roses, carnations, general greenhouse and early vegetable stock; willing to work in and outside; must be temperate and reliable. Address, stating wages expected, experience and references. MRS. W. A. RIEMAN, Vincennes, Ind.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man. WILFRED A. BROTHERTON, Rochester, Mich.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about $75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—2 large Bay Trees, round heads, 7 feet broad, 12 to 14 feet high. Shown at World's Fair. VAUGHAN'S SEED STORE, Chicago.

FOR SALE OR RENT—My place at Bowmanville, 16,000 feet of glass, steam heat, plenty of stock. Good chance for man with a little money. WM. JACQUES, Bowmanville, Ill.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR RENT—A first-class commercial place in suburb of Chicago, containing 15,000 square feet of glass, well stocked with best varieties of forcing roses. Address RENTER, care Olsen & Hughes, 66 Wabash Ave., Chicago.

FOR SALE—The stock and good will of a paying florist business in a thriving Maryland town. Location exceptionally good. Rare chance for a good man with a small amount of capital. For particulars address HEBARD, care American Florist.

FOR SALE—At less than cost, greenhouses of 3,500 feet of glass; all in good repair; houses filled with cut flower, vegetable and bedding plants. Big trade; no opposition; big vegetable plant trade. Reasons for selling other business. J. C. LEFEVRE, Paxton, Ill.

FOR SALE.

At a bargain, the best retail florist place (1 store and greenhouses) in the city and doing a good business; poor health reason for selling. For further particulars address H. F. HALLE, 548 W. Madison St., Chicago.

FOR SALE.

Weathered Boiler, improved double dome No. 6, capable of heating 1,500 feet of 4-inch pipe. Good as new—been used only a little over a year. Will be sold cheap for cash.

GEORGE CREIGHTON, Poughkeepsie, N. Y.

FOR SALE.

Five greenhouses containing over 3,000 feet of glass, one 4-room dwelling house, barn and workshop, in one of the largest cities in Colorado. Greenhouses well stocked with roses, carnations and a large assortment of bedding plants for spring trade. Only two greenhouses in the city. Good retail trade; established 4 years. Possession given at once. For particulars address VICTOR JOHNSON, Colorado Springs, Colo.

DISSOLUTION NOTICE.

Notice is hereby given that the co-partnership heretofore existing between Arthur Newell and Joseph N. Kidd under the firm name and style of Newell & Kidd and located respectively at Kansas City, Missouri, and Saint Joseph, Missouri, is by mutual consent this day dissolved. Mr. Arthur Newell will continue in the business as a florist in his individual capacity at Kansas City, Missouri, and Mr. Joseph N. Kidd will be located in the same line at Saint Joseph, Missouri.

Kansas City, Missouri, April 30, 1894.

PHILADELPHIA Palms

AT AUCTION MAY 21.

AUGUST RÖLKER & SONS,

New York.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

Buffalo.

Our club has dwindled down to about twenty live florists, and only about half of them can be got together at one time. So it was thought that it was not necessary to rent a hall or meeting place for this handful. Therefore it was resolved that hereafter until further notice we should meet in the houses of the different members, and, judging from the experience of the first meeting of this sort, it is going to be a success. Business was well attended to, and at its conclusion Mr. John F. Cowell gave us a half hour's talk on colors. It was most instructive as well as entertaining and was finely illustrated. At a rather late hour the meeting adjourned and we were all preparing to depart, but "Andy" (we were at the house of our president, W. A. Adams) would not have it so, and we had to walk into another room and take just enough of his hospitality so that there would be no fear of our suffering during the night with long fasting. It was neatly done and not overdone, and the first man who attempts to spread himself any further in this direction will immediately get his walking papers from the club. Half an hour was most pleasantly spent listening to a short program of music, both vocal and instrumental, much of which was intensely enjoyed, for it was of the gilt edged sort, particularly the humorous part. The next meeting of the club will be held in June at the house of Mr. Cowell on West Ferry street.

Mr. Dan'l B. Long has issued a very neat invitation to the trade of the city, and I presume western New York, to attend his third annual opening on the 15th. Dan knows how to run these things, and I know I will have something good to report next week.

Business has been quite fair the past week and everything is at least two weeks earlier than ordinary. Our great stand-bys, lilac and lily of the valley, which are greatly depended on to help out at Decoration Day in cheap flowers, will be entirely gone at the end of the month. Violets are about gone; other flowers in good supply.

We have had a goodly number of drummers with us this week, but they were mostly of a kind that you could talk to; among them Mr. James S. Taplin, representing Mr. Joosten and Mr. Vaughan, who talks for J. C. Vaughan and talks so neatly and pleasantly that you are almost sorry when he is gone. W. S.



New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from $1 order).

A. BLANC,
Engraver for Florists,
PHILADELPHIA, PA.

VERBENAS.
To introduce our XX seedlings will send 200 for $1.00 by express, 3 inches above ground, once transplanted. 2,000 good
PANSIES yet at $2.25 per 100. Speak quick.
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SMILAX, nice plants in 2½-inch pots, $2.00 per 100, $15.00 per 1000. Transplanted Seedlings, $1 per 100; $8 per 1000. A few hundred Roses—Meteor, Perle and Hoste, 3-inch, ready for a shift, $6.00 per 100.
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We have the following surplus stock of Roses in 2 and 2½-inch pots that we wish to dispose of as we need the room.

2,000	BRIDES	@ $ 3.00	1,000	METEORS	@ $ 3.00
1,000	MERMETS	@ 3.00	5,000	BEAUTIES	@ $6 to 8.00
2,000	ALBANY	@ 3.00	500	BRIDESMAIDS, 3-in. pots	@ 8.00
2,000	LA FRANCE	@ 3.00	1,000	" 2-in. pots	@ 5.00
2,000	PERLES	@ 3.00	1,000	KAISERIN, 2-inch pots	@ 3.00

BASSETT & WASHBURN, Hinsdale, Ill.

YOUNG ROSES.

Am. Beauties,	in 2 and 3-inch pots,	$5 00 and	$6 00
Testout,	" " "	3 00 and	4 00
Meteors,	" " "	3 00 and	4 00
Brides,	" " "	3 00 and	4 00
La France,	" " "	3 00 and	4 00

We will quote you special price on Beauties in lots of 500 or more.
REINBERG BROS., 51 Wabash Ave., Chicago.

ROSES, all the very best both new and old.
CHRYSANTHEMUMS, the cream of all the long list now offered, in extra fine plants now ready for immediate delivery. JOHN N. MAY, Summit, New Jersey.

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200,000 from 2½-inch pots, at $20 per 1000; $2.50 per 100.
STRICTLY OUR SELECTION. Cash with Order.
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HYBRIDS—M. Baumann, Black Prince, Alfred Colomb, F. De Lesseps, De Graw, Dufferin, Edinburgh, Holmes, Giant of Battles, Lefebvre, Lyonnaise, Prince Arthur, E. Verdier, E. Fuerst.
HYBRID TEAS—Weilshott, Meteor, Pink Rover, La France, White La France, Albany, Wootton.
TEAS—Bravy, Gontier, Golden Gate, Mermet, Brides, Passot, President, Rubens, Anna Ollivier, Perle, Sunset, Schwarz, Watteville, Hoste, Salviati, Safrano, Waban.
CLIMBERS—Baltimore Belle, Seven Sisters, Tennessee Belle, Gustave Gossard, Marechal Niel, Solfaterre, Devoniensis, Lamarque, Perle, Richardson.
Also Queen's Scarlet, Soupert, Chatelard, Pernet, Kuster, Mignonette and other varieties.
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3-inch pots	70 00
Mermets, from 3-inch pots	50 00
Brides, from 3-inch pots	50 00
Perles, from 3-inch pots	50 00
Testouts, from 3-inch pots	60 00

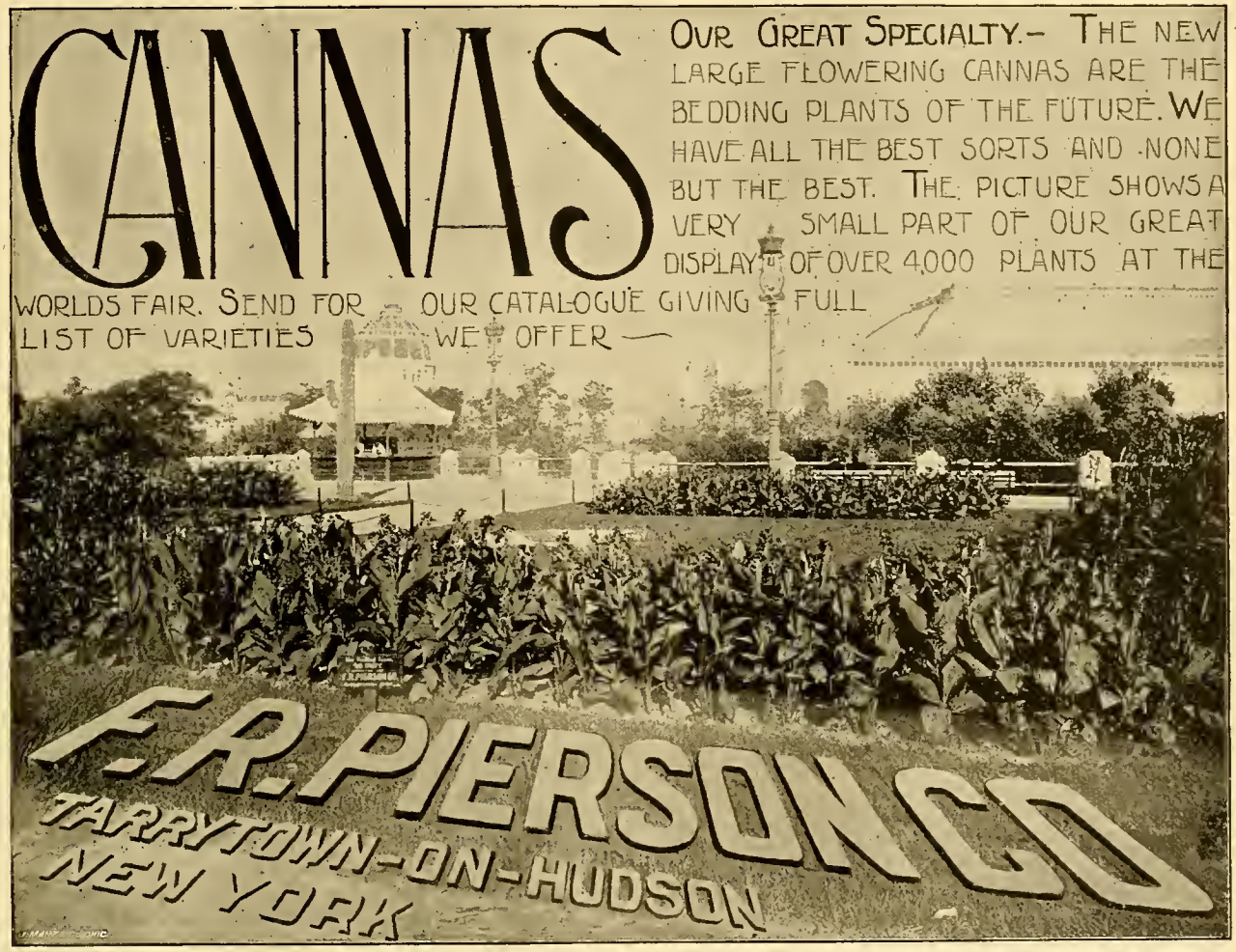
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5 inch pots	$ 5.00 per doz.
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2½-in. pots	15.00 per 100.

Cash with the order.
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Brides, Mermets, Perles, Cusins, Hoste, Watteville, Gontier, Meteor and La France, at $4.00 per 100. Bridesmaid and Beauty, at $6.00 per 100. Strongly rooted Beauty cuttings, at $3.00 per 100. Special prices on quantity. Let me price your lists. Cash with order.
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Mme. C. Testout AND K. A. Victoria.

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2,000	BRIDES, 3½-inch pots,	45.00
1,000	PERLES, 3½-inch pots,	45.00
1,000	MERMETS, 3½-inch pots,	45.00

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Brides, 2½-inch	$3.50	per 100
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Perles, "	"	"
Sunsets, "	"	"
La France, "	"	"
Albany, "	"	"
Niphetos, "	"	"
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3½-inch of above varieties	$6.00	per 100

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Meteor, 2½-inch.	4.00 per 100
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Bridesmaid, 2½-inch, $5, 3-inch,	8.00 per 100

Strong, thrifty plants.

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200 Niphetos Roses, 20 inches high, $10.00 per 100.
Bouvardias, rooted cuttings, 5 vars. $1.50 "
Blue Lobelias, for Baskets, ready to bloom, $2.00 per 100.
Verbenas, $2.50 per 100. Extra fine colors.
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Above assortment, not in excess of any one sort, $3.00 per 100; $30.00 per 1000.

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A big stock of bedding plants. Write for quotations.

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

ST. LOUIS SUBSCRIBER.—You can do no better than to secure a copy of our trade directory and reference book and study pages 155 to 199, on which appear Mr. Scott's seasonable hints for the year. We can not answer your last inquiry. Possibly an adv. in our want column would put you in communication with some one having such material to sell. Give your name and address with future inquiries so we may be able to answer by mail if that should seem desirable.

Wages.

What are usual wages given to ladies for making up and decorating? Also for flower store work? ONE IN THE TRADE.

The above question is very indefinite. The wages given to ladies as well as those paid to men vary with the ability of the party and character of the work required, etc. There are but few instances where ladies are given full charge of the decorating and making up work in large establishments; in these cases probably a salary of from $1,000 to $1,200 per year is rarely exceeded. Ladies are employed more generally as assistants, cashiers, etc., many of them not receiving more than $6 or $8 per week.

DO YOU WANT Mr. Scott's seasonable hints for the year in book form, so that you can refer readily to his suggestions for any week in the year? You will find them in this form in our trade directory and reference book for 1894. Price $2.00.

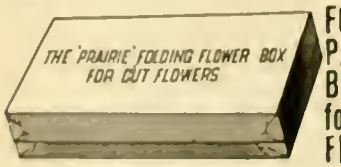
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NOTICE.

Chicago Flower Exchange.

At a special meeting of the Stockholders of the Chicago Cut Flower Exchange, held at No. 45 Lake Street, Saturday morning, April 28th, it was resolved to discontinue the business. All persons having claims against the Chicago Cut Flower Exchange are requested to present same at once, and those indebted to said Exchange are requested to make payment without delay to

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59 Wabash Avenue, CHICAGO.



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This is to inform our friends and patrons that on and after May 1st, '94, we will be located at

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where we will be pleased to see you. We are now as were before prepared to fill all orders with good stock and prompt shipment. Come and visit our new quarters when you are in the city.

We remain yours,

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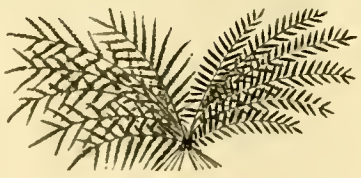
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" Meteor, Mermet, Bride	1.00@ 4.00
" Bridesmaid	2.00@ 5.00
" Testout	2.00@ 5.00
" Beauty	2.00@20.00
" Hybrids	2.00@20.00
" Jacqs	5.00@15.00
Carnations	1.00@ 3.00
Harrisii	.50@ 2.50
Valley	1.00@ 2.00
Daffodils	2.00@ 3.00
Sweet peas	.75@ 1.00
Mignonette	2.00@ 4.00
Marguerites	.50@ .75
Smilax	15.00@25.00
Asparagus	35.00@50.00
Adiantum	1.00

BOSTON, May 14.

Roses, Niphetos, Gontier	1.00@ 2.00
" Perle, Sunset	1.00@ 2.00
" Bride, Mermet	1.00@ 6.00
" Jacqs	10.00@16.00
" Brunner	3.00@16.00
Carnations	.25@ 1.50
Harrisii	6.00@ 8.00
Lily of the valley, Mignonette	1.00@ 2.00
Sweet peas	1.00
Marguerites	.25@ .50
Adiantum	1.00
Smilax	12.00@15.00
Asparagus	50.00

PHILADELPHIA, May 14.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watteville, Hoste	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 5.00
" Kaiserin, Bridesmaid, Testout	5.00@ 8.00
" Belle, Beauty	10.00@25.00
" Jacqs	10.00@15.00
Carnations, fancy	2.00@ 3.00
" good ordinary	.75@ 1.25
Valley	3.00@ 4.00
Yellow daisies	1.00@ 1.50
Mignonette	1.00@ 1.50
Asparagus	50.00@75.00
Harrisii lilies	6.00@ 8.00
Sweet peas	.50@ 1.00
Cattleyas	40.00
Orchids	15.00@40.00
Smilax	15.00@20.00

CHICAGO, May 15.

Roses, Meteor, La France	3.00
" Mermet, Bride, Perle	2.00
" Wootton, Duchess	2.00
" Testout	5.00@ 6.00
" Beauty	18.00@25.00
" good ordinary $15.00 per 1000	
Carnations	.75@ 1.50
" fancies	2.50
Valley, outdoor	1.00
Longiflorum	5.00 @ 8.00
Sweet peas	1.00@ 1.50
Smilax	15.00
Asparagus	50.00

CINCINNATI, May 14.

Roses, Beauty	10.00@25.00
" Mermet, Bride	3.00@ 4.00
" La France	5.00
" Perle	2.00@ 3.00
Carnations	1.00@ 3.00
" short	.75
Callas, Harrisii	6.00
Sweet peas	1.00@ 1.25
Valley	2.00@ 3.00
Smilax	15.00
Adiantum	1.00
Asparagus	50.00

BUFFALO, May 14.

Roses, Beauties	10.00@25.00
" Mermet, Bride	4.00@ 6.00
" Meteor	3.00@ 5.00
" Goutier, Perle Hoste	3.00@ 5.00
" Cusin	3.00@ 4.00
Callas, Harrisii	6.00@ 8.00
Carnations, long	1.00@ 1.50
" Daybreak and Wm. Scott	1.50@ 2.00
Valley	2.00@ 3.00
Violets	.50
Tulips, Daffodils	1.00@ 3.00
Sweet peas	.50@ .75
Mignonette	1.00@ 2.00
Smilax	15.00@20.00
Adiantum	1.00@ 1.50
Asparagus	50.00

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REPORTS from the California seed districts indicate continued drought, which will reduce some of the estimates of large crops made earlier in the season. The lima bean district in Ventura county is reported to have suffered severely.

MR. F. HOWCROFT, of Howcroft & Watkins, of London, has just made a ten days trip through the United States, returning on the Majestic from New York, May 16th.

MR. CHAS. P. BRASLAN is now in California.

MR. E. V. HALLOCK will hereafter represent Messrs. Vilmorin, Andrieux & Co., of Paris, with office at 26 Barclay street, New York.

MR. W. A. BURPEE was suddenly recalled from California on account of the severe illness of his mother.

Missouri State Horticultural Society.

The semi-annual meeting of this society will be held at Harrisonville, Mo., June 5, 6 and 7. An exhibition will be held in connection with the meeting. Programs may be had on application to the secretary, Mr. L. A. Goodman, Westport, Mo. It is announced in the program that Missouri now has no less than 46 working county horticultural societies.

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Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.

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Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

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And all other bulbs for forcing and outdoor, in very fine quality, at very low rates.

References as to the quality of our Bulbs, to nearly all the leading Bulb Importers in the United States.

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We are now prepared to quote lowest possible prices for next July, August and September delivery.

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CYCLAMEN SEEDS,

European strain.

LILIES OF THE VALLEY,

Berlin and Hamburg Pips.

FLOWER SEEDS for Fall delivery.

METAL WREATHS.

All at Import Prices.

SCHILLER & CO.,

Commission Seed Merchants,

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Please make us offer of all kinds of Seeds and Bulbs, we will sell it for you.

LATANIAS.

For Sale Cheap, 100 very choice Latania borbonica in 10 and 12 inch pots with 8, 10 and 12 leaves, at from $6 to $10 each.

H. F. HALLE,

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CHRYSANTHEMUM NIVEUS.

Now ready, from 2-inch Pots, strong plants, price, $1.50 per dozen; $10.00 per hundred.

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VAN ZONNEVELD BROTHERS & CO.

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—— *GROWERS OF* ——

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Now ready to quote our lowest prices for Wholesale Importers.

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ROSE HILL NURSERIES,

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Palms,

ORCHIDS,

Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants.

A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich St., New York City.

WHY NOT TRY

A FEW ORCHIDS?

They are Very Cheap. They are Easily Grown. They Sell Well.

They always attract attention in store or greenhouse.

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304 W. Madison St., BALTIMORE, MD.

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CANNA MME. CROZY, started plants, $1 per doz.

CHRYSANTHEMUMS, nice young plants, including some of the newer varieties, my selection, $2.50 per 100.

FUCHSIAS, healthy vigorous young plants, from 2-inch pots. Splendid list of varieties, my selection, $2.50 per 100.

GERANIUMS, large assortment, my selection, $3.00 per 100.

CARNATIONs, entirely free from disease. One hundred in assorted colors, my selection for $2.50.

PANSIES, from finest seed to be had, $2.00 per 100.

BEGONIAS, fine assortment, 2-inch, my selection, $3.00 per 100.

ALYSSUM COMPACTUM, $2.00 per 100; stroog, 2-in.

DUSTY MILLERS (Centaurea Gymnocarpa), $2.00 per 100 for strong 2-inch.

ENGLISH IVY, 2-inch, $3.00 per 100.

Any of the above plants 25 at the 100 rate.

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

New England States.

100,000 Plants of Geraniums, leading kinds, 4, 3½, 3-inch, Coleus, Achyranthes, Dwarf Ageratum, Salvias, Petunias, etc., etc.

1000 Hydrangeas, 8, 7, 6-inch pots, clean, healthy stock. Come and see it. Send for prices to

L. H. FOSTER,

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E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Toronto.

J. H. Dunlop opened his new store one door from the corner of King and Yonge streets this week. The situation makes it a pretty expensive stand but everything has been done with a view to catch the best trade and some of the others will have to get a wiggle on to keep in the procession. The store window was beautifully decorated with cattleyas and large quantities of roses on its opening day.

There is no improvement in the state of the cut flower trade to record nor is there likely to be, though of course in plant, shrub and tree lines things are rushing.

A large piece of wild ravine has just been added to Reservoir Park and Mr. Geo. Reeves, the superintendent, has a large gang of men on getting it into shape to receive the many picnic and pleasure parties that frequent this park during the summer months. It is a lovely spot truly and Mr. Reeves is just the man who knows how to operate on it and still retain its natural loveliness.

Some of the local seedsmen are already making preparations to receive the Seed Trade Association in June. It is probable the City Council will give them some assistance towards their entertainment.

E.

Validity of a Floral Design Patent.

The United States Circuit Court holds, in the case of Krick vs. Jansen, recently decided, that patent No. 408,416, dated August 6, 1889, to William C. Krick, for a floral letter or design is valid. It says that if the patent was for the letter merely, consisting of the foundation, covered with flowers, as described, it would be anticipated and void. But it is for such letters in combination with the holes and picks for holding them in position on large floral pieces. This combination seems to be new, and quite useful. It did not involve great invention; but greatness is not required for patentability. It seems to be sufficient for that. Furthermore, it is infringed by letters which do not have holes through the foundation for attaching the picks to them, but have the picks at the edges of, and over, the foundation, attaching them to it in a manner equivalent to that, as taking the substance of the patented invention.

PANSIES,

THE JENNINGS STRAIN.

Plants in bud and bloom $1.50 and $2.00 per 100, $15.00 per 1000; medium sized plants of mixed, white or yellow, $5.00 per 1000. Extra 60c hundred by mail.

New crop Pansy Seed ready June 25th, better than ever. Cash with order.

ADDRESS E. B. JENNINGS,
WHOLESALE PANSY GROWER,
Lock Box 254 SOUTHPORT, CONN.
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HEALTHY ROOTED CUTTINGS
Carnations AND Chrysanthemums.
STANDARD VARIETIES.
MARIE LOUISE VIOLET RUNNERS.
SMILAX, 2½-inch pots.
Satisfaction and prompt shipment guaranteed.
SAMUEL J. BUNTING,
Elmwood Ave. & 58th St., PHILA., PA.
Mention American Florist

Lady H. Campbell Violet
To close balance of stock at $20.00 per 1000. Good strong plants.
MEADOW VIEW GREENHOUSES,
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Price $2.00.

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Seeing them, leads to wanting them. Using them leads to appreciating them. When once seen, one wants them. When once used, one wants to use them always.
Address the publisher,
DAN'L B. LONG, Buffalo, N. Y.
On Sale by leading Florist Supply Houses.

FRENCH CANNAS.
Several thousand of the following French Cannas, pot grown, in different size pots, for sale at low figures: Alphonse Bouvier, T. Stomayer, Duchess de Mortemarte, Paul Marquant, Horace de Choiseul, President Carnot, Miss Sarah Hill, Explorateur Crampbel, Henry A. Dreer, Egandale, Paul Bruant, Nellie Bowden, Trocadero, General Garvis, Francois Crozy, Madame Crozy, Childsii, and Captain P. de Suzzonii.
Correspondence as to price, sizes, etc., solicited by LEWIS ULLRICH, Wholesale Grower of Cut Flowers and Smilax, TIFFIN, OHIO.

American Beauties.
One thousand extra strong 2 1-2 inch pot plants, at $6.00 per 100.
GEORGE A. HEINL,
337 Summit Street, TOLEDO, O.

RUBBERS.
Tree grown, three to eight branches, very fine stock, $12.00 to $25.00 per dozen.
PALMS, leading varieties at bottom prices.
J. T. ANTHONY,
2205 Michigan Ave., CHICAGO, ILL.

TO THE TRADE.
We have received since January 1st hundreds of complimentary letters from florists praising the manner in which we have filled their orders during the past season. Under the present business management all who favor us with their patronage will receive the highest quality of goods at the lowest price. Please forward us a list of plants you may require. PITCHER & MANDA,
United States Nurseries, Short Hills, N. J.

BEDDING PLANTS.
Coleus, Alternanthera and Geraniums, best varieties $25.00 per 1000. Verbenas, $2.50 per 100.
Tritoma uvaria, $1.50 and $2.00 per 100.
Our "HARD TIMES" $3 and $5 cash Collection of PALMS are taking immensely. We give $8.00 worth of Palms for $5.00 cash with the order. Send for particulars.
WILLIAMS & SONS CO., Batavia, Ill.
Manufacturers of BATAVIA LABELS.

DWARF CALLA.
Something that every florist who sells potted plants should have, as this variety of Calla never grows large, and therefore, for window or house culture has no equal. And again, in cut flower work its size makes it a flower that a cut flower dealer cannot well do without. I have several thousand of these Callas in 3, 4, 5 and 6-inch pots which I offer for sale. Correspondence as to price etc. solicited.
LEWIS ULLRICH, Wholesale Grower of Cut Flowers and Smilax, TIFFIN, OHIO.

Carnations.

Last call tor **Annie Pixley**; can you afford to go without this beautiful new pink? I do not think you can when you can get 25 well rooted cuttings for $2.50 cash with the order.

Smilax.

Transplanted plants, an honest sample of which will be mailed you on receipt 10 cts. The price is 75 cts. per 100, or $6.00 per 1000, cash with the order.

ALBERT M. HERR, L. B. 496, **Lancaster, Pa.**

MONEY-GETTERS ALL!

THESE NINE **CARNATIONS** FROM SOIL.

Free from Disease and First-Class in every way.

- Uncle John
- The Stuart
- Wm. Scott
- Edna Craig
- Albertini
- Daybreak
- Cartledge
- McGowan
- Portia

Note, before you order elsewhere, that we offer the above and twenty other good varieties of Carnations, well established in soil, ready for planting out or potting up—delivery in April—at the price of cuttings from sand, and guarantee satisfaction. Send for list.

ALEX. McBRIDE,
ALPLAUS, N. Y.

ROOTED CUTTINGS OF CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chesler Co., PA.
Mention American Florist.

CARNATIONS

ROOTED CUTTINGS NOW READY.

Wm. Scott, Edna Craig, Daybreak, Thos. Cartledge, Buttercup, McGowan, and many of the standard kinds. Orders filled for the New varieties,

Stuart, Uncle John, Helen Keller, Sweetbrier, Annie Pixley, Bouton d'Or.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chesler Co., PA.

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

SEND FOR OUR PRICE LIST OF

CARNATION ROOTED CUTTINGS.

Prices Greatly Reduced.
Largest Stock in the United States.

ESSEX HEIGHTS FLORAL CO.,
BELLEVILLE, N. J.

THE JACQUEMINOT CARNATION

Is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. **NO MORE SAMPLES**—we cannot spare the time. Send for circular. Per dozen, $2.00: per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.

PETER FISHER & CO.,
ELLIS, Norfolk Co., MASS.

THE DIRECTORY

For 1894

IS NOW READY.

Without Doubt We have a Carnation of strong Constitution in "HELEN KELLER"

Mr. J. T. Anthony, of Chicago, says:
"I like Helen; she is a good grower."

David Bearn, Bala, Pa., declares that "it roots quicker than any other variety that is put in the sand at the same time."

PRICE FOR WELL ROOTED CUTTINGS:

$3.00 per dozen; $12.00 per 100; $25.00 per 250; $90.00 per 1000. 500 at 1000 rate.

ORDERS MAY BE SENT EITHER TO

EDWIN LONSDALE, CHESTNUT HILL, PHILA. or JOHN N. MAY, SUMMIT, N. J.

Chrysanthemums.

Now is the time for benching or prize growing. **Here are ten of the very best**; you will make no mistake in buying. Strong fresh stock, no rooted cuttings, 25 at 100 rates or 100 plants, ten of each, $8.

	Per 100
C. CHALFANT (yellow)	$10.00
E. DAILLEDOUZE (yellow)	20.00
C. DAVIS (yellow Viviand-Morel)	15.00
NIVEUS (white)	5.00
MRS. E. G. HILL (early pink)	15.00
WHITE L. BOEHMER (grand)	15.00
CHALLENGE (yellow)	30.00
SILVER CLOUD (white and salmon)	20.00
PRESIDENT SMITH (pink)	5.00
GOLDEN WEDDING (yellow)	5.00

T. H. SPAULDING, Orange, N. J.

NEW CHRYSANTHEMUM

MAJOR BONNAFFON

(A Golden Ivory).

Good for market as well as exhibition purposes.

50c. each, $5 per dozen; $35 per 100.

FRED. DORNER & SON,
LAFAYETTE, IND.

ROOTED CUTTINGS CHRYSANTHEMUMS

Write for list and prices. Prices to suit the times.

STRONG SMILAX, from 2½-inch pots, $3.00 per 100; $25.00 per 1000.

PANSIES, from cold frame, $15.00 per 1000.

Address J. G. BURROW, Fishkill, N. Y.
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HELEN KELLER
THE STUART
UNCLE JOHN
GOLDFINCH

These and all the leading varieties, including **WM. SCOTT, DAYBREAK** and **TIDAL WAVE** ready now. Send for prices.

GEO. HANCOCK & SON,
Grand Haven, Mich.

AMERICAN BEAUTIES.

One thousand extra strong 2 1-2 inch pot plants, at $6.00 per 100.

GEORGE A. HEINL,
337 Summit Street, TOLEDO, O.

TO EXCHANGE.

Chrysanthemums, either novelties or standard sorts, for rooted runners of Marie Louise Violets, in quantities from 500 to 10,000.

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ADRIAN, MICH.

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20,000 ARAUCARIAS

ARAUCARIA EXCELSA, 6 to 8-inch plants, ***$35.00 PER 100; $6.00 PER DOZ.***

ARAUCARIA IMBRICATA, 3 to 4 in. high, ***$8.00 PER 100; $1.50 PER DOZ.***

The above delivered by Mail or Express at prices quoted.

New Crop	Phœnix Canariensis,	$2.50 per 1000 Seeds
"	Washinglonia lilifera	.75 per lb.
"	Chamærops excelsa	.50 per lb.
"	Grevillea robusta	5.00 per lb. 50c oz.

COX SEED AND PLANT CO.
411, 413 & 415 Sansome Street,
SAN FRANCISCO, CAL.

REX BEGONIAS, ANEMONE JAP. ALBA, fine stock from 2 and 2½-in. pots, $3.00 per 100.

CHRYSANTHEMUMS:

Golden Wedding and Good Gracious, rooted cuttings, $3.00 per 100. Ivory, Widener, Domination, W. Falconer, Jessica, and 20 other fine cut flower varieties, at $1.00 per 100.

HONEYSUCKLES, everblooming, white and pink $8.00 per 100.

EVERBLOOMING ROSES, 20 good market kinds, in fine condition for immediate sales, 3-inch, $5.00 per 100; 4-inch, $10.00 per 100.

ALYSSUM TOM THUMB, nice seedlings, ready to pot, $4.00 per 1000.

Would exchange with reliable parties for small Palms.

EVENDEN BROS., Williamsport, Pa.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address GEORGE WITTBOLD,
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Verbenas

SPECIAL OFFER. Per 100 Per 1000

Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" " rooted cuttings,	1.25	10.00
General collection, named, " "	1.00	8.00
" " 2¼-inch pots	2.50	20.00

Send for price list of Carnations, Chrysanthemums and other florist stock.

WOOD BROTHERS,
Fishkill, N. Y.

OASIS NURSERY CO. TRADE MARK REGISTERED

Tuberous Begonias.

GRIFFIN'S STRAIN.

Medal awarded World's Fair.

We are headquarters for the above, the finest strain in the world. Send for illustrated descriptive catalogue with copyright engravings. It tells you all about them.

OASIS NURSERY CO.,
Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.

THE GREAT ANTIPEST.

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

Pittsburg.

The regular meeting of the Florists' and Gardeners' Club occurred May 8, but there were not enough members for a quorum, so those present adjourned.

The warm weather has had its effect on trade. Bedding plants are in abundance; reports are that business is not lively. A walk through the markets convinced me that the wholesalers did not fare well, but the retailers fared better. Things are going well on an average, considering the dull times. Cut flower trade is dull and very unsatisfactory; prices are very low and stock abundant.

F. Burki has had a fine lot of sweet peas, and in quantity. Blanche Ferry seems to take best and sell at a reasonable price.

Elliott & Ulam and Patterson Bros. seemed to be quite busy on Saturday last.

Allegheny and Schenley Parks and the conservatories draw large crowds of visitors. The leaves of the Victoria regia at Phipps Conservatories at Schenley lack a few inches of six feet and are showing flower. A house of Rhododendron Catawbiense varieties attracts a great deal of attention.

Messrs. Jacob F. Foster, superintendent of South Park system, Chicago; Frederick Kanst, superintendent of Floricultural Department; and Mr. Atwood, of Chicago, visited Schenley Park on Saturday, inspecting the Phipps Conservatories (with a view to building in Washington Park, Chicago) and went away more than pleased, vowing they would never say a word against Pittsburg again. Panther Hollow, at Schenley Park, carried them completely away; they were also delighted with Highland Park. A. J. E.

Pittsfield, Mass.

The regular meeting of the Berkshire County Gardeners' and Florists' Club was held Wednesday, May 9, Mr. T. T. Connors presiding. There was a fair attendance present and considerable routine business was gone through.

The recent death of a member proved to be a lively subject for discussion. The sentiment of the members was in favor of attending the funeral of brother members and favored the club providing a mourning badge and a conveyance to enable them to attend in a body.

A committee was appointed to revise the constitution and by-laws, believing that important changes were imperative and necessary.

Preparations are being made for the printing of an elaborate annual report and premium list combined and it was decided to allow a number of advertisements, which, we trust, will be of mutual advantage to ourselves and our friends who will take advantage of this. Horticulture is constantly growing in interest in this section.

Mr. N. L. Cobban brought to the meeting a pair of cockchafers to find, if possible, something to either kill them or prevent them from cutting up his strawberry leaves and eating by the wholesale. We would be pleased to hear of a remedy for this.

Mr. A. P. Meredith interested the meeting as usual by a very practical talk on the cypripedium. Unfortunately we cannot publish it, as we were without a stenographer, the address being extempore.

W. M. EDWARDS.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

A Few Gems

YOU OUGHT TO HAVE.

FUCHSIA LITTLE BEAUTY.—A Gem of the first water for florists and market gardeners; will produce triple the amount of flowers than any other sort, and a very early bloomer, single blue corolla; sells at first sight. Price $1.00 per 12; $7.00 per 100.

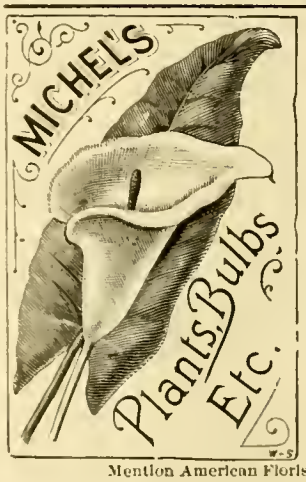
PETUNIA PINK BEAUTY, the best selling plant for any florist, color most exquisite rose, finely fringed and filled; grow a big house full of it and it will net you a quicker net profit than any other plant—$1.00 per 12; $7.00 per 100.

MARGUERITE CARNATION, finest strain for summer bloom; will give you flowers for 5 months outdoors in greatest abundance; $3.00 per 100. $25.00 per 1000.

CHRYSANTHEMUM THE QUEEN, the white Chrysanthemum for the million as pot plant or cut flowers; largest flowers without too much care; $5.00 per 100; $45.00 per 1000.

OUR NEW ROSE AMERICAN PERFECTION.—This sport will produce twice the flowers than Mermet or Bridesmaid on strong erect stems, and flowers will last a week in perfect condition, a vivid rose; also the finest bedder among Teas. Try a hundred; you will not repent it. Only $6.00 per 100, $50.00 per 1000, from 2-inch pots. Send a list of your wants. Address

NANZ & NEUNER, Louisville, Ky.



Write for Wholesale List.

MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

Mention American Florist.

PLANTS.

	Per 100
Alternantheras, P. major, Aurea nana, Tricolor (Rosea nana), Versicolor	2.50
Plumbago, Capensis and Alba	4.00
" Lady Larpent's	4.00
Perennial Phlox, fine assorted	$6.00 and 4.00
Achillea "The Pearl"	4.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't	$3.00 and 4.00
Abutilons, assorted	4.00
Echeveria Extensa globosa, 3 to 6 inches across, per dozen, $1.00.	
Mexican Primrose	3.00
Lady Washington Geranium	6.00
Achyranthus, assorted	3.00
Coleus, assorted	$2.00 and 3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Anthericum picturatum	per dozen, 75c.
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00
Silver-Leaf Geraniums, 3 varieties (no Mme. Salleroi)	4.00
Oxalis, Ortgiesi	4.00
Dahlias, named, our selection	5.00
French Cannas, named, our selection, dry roots	5.00
French Cannas, unnamed	3.00
" " potted	10.00
Fancy Leaf Caladium, fine mixed	6.00
" " " named	8.00

Trade list on application.

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.

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The Water Garden.

Special and Hardy Water Lilies of all colors.

VICTORIA REGIA AND V. RANDI, EURYALE FEROX.

Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc., etc. Nymphæa Laydekeri rosea (awarded a Medal at World's Fair); most charming of all the HARDY Lilies; $2.50 each.

Other Columbian Novelties see catalogue.

WM. TRICKER & CO., Clifton, N. J.

CLEMATIS.

12 Choice leading kinds. Large flowering
Two years $1 per doz.; $22.50 per 100
Three years $1 " $30.00 "

DAISIES.—Snowflake and Snowcrest, distinct kinds, indispensable for spring sales, $2 per 100.

SMILAX SEEDLINGS,
from fall, 75 cents per 100; $6.00 per 1000.

F. A. BALLER, Bloomington, Ill.

50,000 Dwarf French CANNAS.

We offer the above quantity in strong, well established plants from 3 and 4-inch pots. This stock must not be confounded with dormant pieces or freshly divided plants out of benches.

We list here only the principal varieties of which we have a large supply. For a general list refer to our Spring Trade List which describes over seventy-five varieties, including all the desirable novelties of the season, including the grand New German variety, Konigin Charlotte:

	Per 100
Madame Crozy	$10.00
Alphonse Bouvier	10.00
Paul Marquant	10.00
Capt. P. de Suzzoni	15.00
Florence Vaughan	25.00
Charles Henderson	25.00
Paul Bruant	20.00
Admiral Gervais	15.00
Comtesse de L'Estoile	15.00
Chas. Dippe	15.00
Cronstadt	15.00
Denil de St. Grevy	15.00
Explorateur Crampbel	15.00
Gustav Senneholz (true) distinct	15.00
Maurice Mussy	15.00
Martin Cahuzac	15.00
Marquise Arthur de L'Aigle	10.00
Nardy Pere	15.00
Professor Gerard	15.00
Secretary Stewart	15 00
Stadtgartner Senneholz	15 00
Antoine Crozy	8.00
Admiral Courbet	8.00
Antoine Chantin	8.00
Baronne de Sandrans	10.00
Baronne de Renowardy	8.00
Comte Horace de Choiseuil	10.00
Duchess de Montenard	12.00
E. Chevreul	12.00
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Edward Michel	12.00
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J. Thomayer	20.00
Miss Sarah Hill	15.00
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Nelly Bowden	8.00
Princess Lusignani	12.00
Perfection	15.00
Souvenir de Jeanne Charreton	8 00
Statuaire Fulconis	8.00
Trocadero	8.00
Ventura	8.00
Viticeulteur Gaillard	8.00
Kaiser Wilhelm	8.00

We will furnish one each of the above varieties, 46 plants for $5.50.

Among Crozy's New Cannas of this season Paul Sigrist is undoubtedly the most distinct and striking novelty. We are the only American house offering this variety to the trade this season. In general habit similar to Mme. Crozy, but of a bright crimson color nearly as rich as Alphonse Bouvier with a very broad golden yellow border. Stock limited, $2.50 each.

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20,000 COLEUS, VERSCHAFFELTII and GOLDEN BEDDER (true); 10,000 COLEUS, assorted, in 50 varieties, fine plants, pot grown, ready now, $20.00 per 1000. Cash with order.

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Red and Yellow, good size, $2.50 per 100.

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FOR FLORISTS.
Largest and finest stock in the United States. Write for prices to
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Strong plants, last season's sowing, will begin to run at once. From 3-inch pots 75 cts. per dozen; $5.00 per 100; $45.00 per 1000.

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3 1-2 inch pots, 75 cts. per dozen; $6.00 per 100.

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6-inch pots, strong, $9.00 per dozen.

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30,000 VERBENAS. THE CHOICEST VARIETIES. PERFECTLY HEALTHY.
In bud and bloom, $2 50 per 100; $20 00 per 1000.

40,000 ROSES. OUR CHOICE SELECTED STOCK. READY FOR IMMEDIATE PLANTING.
Grown in 3-inch and 4-inch pots. Send for prices.
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Baskets and Fern Dishes for Dinners, Decorations, Receptions, School Commencements, Bon Voyage, etc. purposes, in many pleasing styles, plain and fancy, of Wicker, Willow, natural, gilt or bronzed, Raffia, Celluloid, Silver and Gold Metal, etc., at high and low prices, all cheap for their cost; compare our Fall trade list.

Cycas Leaves, (Sago Palm), **natural prepared,** equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

Immortelles, White and all colors, $2 75 the dozen, natural yellow, $2.00; Cape flowers, best, $1.00 the lb., second size, 60c. the lb.; Wheat Sheaves, Wire Designs, Wire, Foil, Picks, Wax Paper, and all other **Florists Supplies** quoted in our **Illustrated Trade List,** mailed free.

Metal Designs for Decoration Day in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.
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August Rölker & Sons,
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ROOTED CUTTINGS

COLEUS, 10 kinds by mail.....60c per 100
" 12 kinds by express..$4.00 per 1000
ALTERNANTHERA P. Major and Aurea Nana, by mail.....50c per 100

CASH WITH ORDER.

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For 1894
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	Per 100
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Flowering varieties	$3 00
Rex, in variety	5 00
COLEUS, in variety, per 1000, $20.00	2 50
COBÆA Scandens	3 00
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Achillea The Pearl, strong, 2-inch	2 50
Abutilon Eclipse	3 50
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Calla Aethiopica, fine dry roots in all sizes.
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Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to $5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

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New Seed Now Ready.

Price per packet containing 50 seed . . . 20 cents.
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14 packets containing 50 seed . . each $2.00
Packet, 400 seeds, 15 sorts $1.00
Special rate in large quantity. Circulars telling how to grow primroses, free.
HENRY S. RUPP & SONS, Shiremanstown, Pa.

20,000 Bouvardias,

two varieties, in 2½-inch pots, at $3.00 per 100; $25.00 per 1000.

UHLMANN & HAISCH,
MEMPHIS, TENN.

Mention the American Florist when writing to advertisers on this page.

Montreal.

The Gardeners' and Florists' Club met in good numbers on Tuesday last and accomplished a deal of work. We are fast becoming strict parliamentarians, and Cushing's rules of procedure are now being studied vigorously by many of our members.

The prizes won by the various players in the social games were awarded, and the social committee was discharged. Special thanks were tendered to the whole committee and especially to its chairman, Mr. A. Wilshire, for their indefatigable attention. The club decided to establish games for summer amusement, and also decided on again having a picnic.

The report of committee on the Horticultural Society's relation with the club was accepted. The club pledges itself to do all it can to assist the Horticultural Society in furthering any and every undertaking that shall advance the interests of horticulture generally, but does not become affiliated with the first named society, as it is generally felt that the work of the club would be crippled by a closer connection. A copy of the new trade directory presented by the American Florist Company was received and the secretary was instructed to convey to the company the hearty thanks of the club for the same. We are now engaged in considering the advisability of obtaining a charter and shall probably get full information at our next meeting.

A notice of motion to change the night of meeting was presented. This would be a good change, as several of the members live outside the city, and a change in the night of meeting would enable these members to attend, as a late train would then be available.

A call for volunteers for an essay upon greenhouse construction and heating was readily responded to by deciding to have read, and if possible discussed, the recent essays upon the subject published by the horticultural press. Everyone was of opinion that more practical information could be obtained from them than from our own crude ideas. Mr. Walter Wilshire promised to prepare an essay upon the carnation, and as this gentleman's essays are always good we look for a first-class handling of the subject.

H. STOCKING.

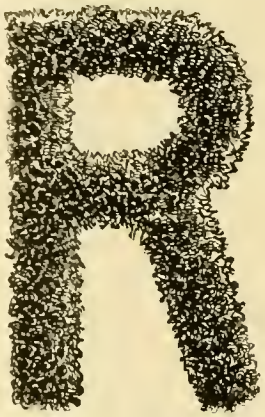
American Association of Nurserymen.

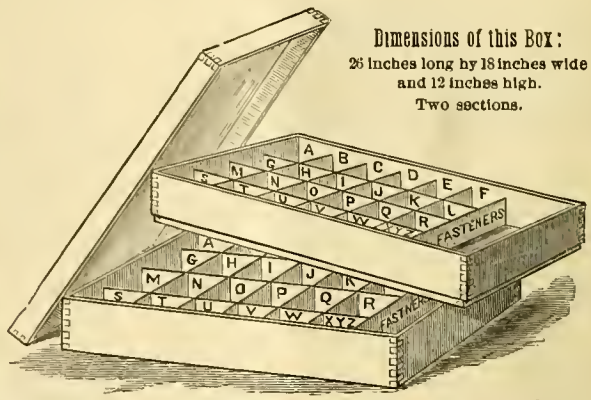
The 19th annual convention of the above association will be held at the Cataract House, Niagara Falls, N. Y., June 6 and 7. A rate of fare and a third for the round trip on the certificate plan has been secured. The Cataract House has made a rate of $3.50 a day, and the Hotel Porter a rate of $2 a day. The program has been issued and copies may be had on application to the secretary, Mr. Geo. C. Seager, Rochester, N. Y.

BUILDING.—Readers who contemplate building additional greenhouses, or remodelling old ones, this summer, will confer a favor by reporting their intentions to us. We are anxious to have as full a record as possible.

DO YOU WANT detailed information about the organization and workings of the various national trade organizations? You will find what you want in our trade directory and reference book for 1894. Price $2.00.

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OUR NEW SCRIPT LETTER, $4.00 per 100.

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H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont., Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
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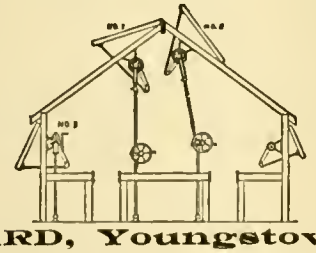
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VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years, no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, Youngstown, Ohio.

Fenster Pappe, A Substitute for Glass. Stretch FENSTER PAPPE taut and use batten in nailing on to sash. Then paint the rough surface thoroughly with boiled linseed oil until it shows a gloss. Let it become THOROUGHLY DRY before using, when it is claimed to do service for years. The application of the oil makes FENSTER PAPPE sufficiently translucent for plant life.

IT IS USED as a covering for cold pit sash; excellent for use in palm or fern houses; to grow strawberry plants, early vegetables, tobacco, etc., under. A most handy article as a protection against the direct rays of the sun.

TRY a roll of eight yards as a sample, which will cover about four sash, for $1.00. Original rolls, 36 inches wide, 110 yards long, for $9.00. For further particulars address

August Rölker & Sons, Sole Agents, 136 & 138 W. 24th St, New York.



J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN *DO IT NOW.*

JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

THE DIRECTORY FOR 1894 IS NOW READY.

PRICE $2.00.

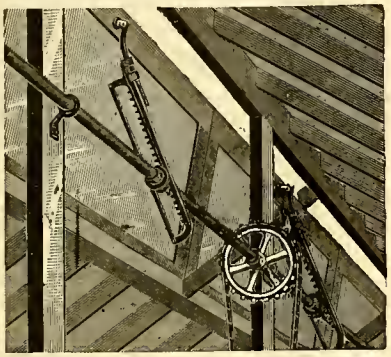
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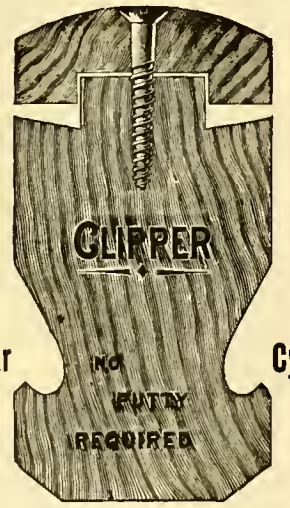
Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

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LOCKLAND LUMBER CO.



MATERIAL FOR GREENHOUSES.

Send for Circulars and Testimonials.

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from bottom of gutter up.

Correspondence solicited. Estimates cheerfully furnished.

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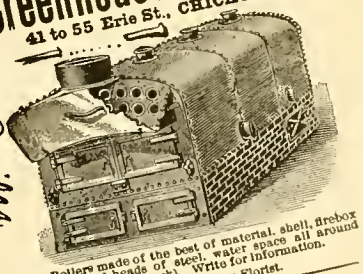
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Greenhouse Boiler,
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Boilers made of the best of material, shell, firebox heets and heads of steel, water space all around front, sides and back. Write for information.
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This is the Boiler

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Messrs. Kroeschell Bros.
41 to 55

Chicago.

Gentlemen:

Last season we purchased three of your Improved Green House Boilers. They have done heroic service the past winter — eclipsing every claim you made. Since Feb. 25th one large boiler has been doing the work of two, heating six houses 185 ft. + 24 ft., with 9 pipes (4 inch) each; i.e. about 26000 square feet of glass, the hot water being forced through nearly two miles of 4 inch pipe. While the weather has been mild we doubt this showing can be excelled. Needless to add your boilers please

Yours Very Respectfully
Brant & Moe.

Mention American Florist.

THE MALTESE CROSS BRAND
THE VERY BEST OF GARDEN & LAWN
HOSE



TRADE MARK

if your dealer does not have it send direct to the manufacturers

35 Warren Street, NEW YORK. The Gutta Percha & Rubber Mfg. Co. 170 Lake Street, CHICAGO.

ESTABLISHED 1866.

FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST. NEW YORK.

Indianapolis.

The Indianapolis Florists' Club held its regular session May 2. It was determined at the April meeting to make the May session one of a social character. The arrangements were placed in the hands of a committee, and notices were sent each member. A large attendance followed. The routine business was laid aside, and the evening was spent in speechmaking, music and "incidentally" refreshments. The event was made enjoyable by the various members taking an active part. The was a fine display of cut flowers contributed by the members. The secretary adopted a novel method of notifying the members to attend the meeting by serving notices on postal cards, each embellished with a pen or pencil sketch portraying in comic characters, the hobby of the member addressed, with an absurd program of the proposed entertainment. It brought them out in goodly numbers.

There was much criticism of the new rules adopted by the Crown Hill Cemetery corporation, who have determined to prohibit the planting of flowers or flower beds by lot owners in the cemetery. Green grass, with trees and shrubbery for the background, may please their æsthetic taste, but it seems to violate the wishes of the community at large, and is a hardship to the florist business.

Business is reported unusually quiet, market trade being considerable less than last year at this time. Cut flowers are getting poor in quality, especially roses; carnations are rather plentiful.

Notwithstanding the bad year for the trade, several new firms are starting in business. Young & Sonnenschmidt are putting up 2,500 square feet of glass east of the city for raising cut flowers. Mail matter can be addressed to 246 East Washington street.

John Grande is putting up 2,000 square feet of glass for a general florist business corner of Shelby and Beecher Sts.

Bertermann Bros. have started a branch floral stand in the large drug store, N. E. corner Washington and Pennsylvania Sts., late quarters of Indianapolis National Bank.

Some good business is expected the coming week, on account of the great music festival and other occasions which are bunched in one week.

J. D. Carmody paid a few days visit to the Capital City; to-day he is attending a banquet of the Loyal Legion at Anderson, Ind.

Our late friend M. A. Hunt will be greatly missed in the councils of our state meetings and exhibitions.

John Hartje is finishing up a large boiler house, ready at any time to connect his houses with steam.

Martin Braendlein has built one greenhouse near the gates of Crown Hill Cemetery, retaining his old place for a while.

W. B.



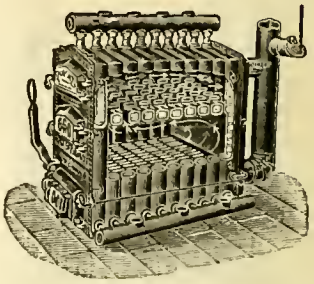
LAWN VASES
For cash with order.
12x19 $1.00 each
With 11-inch base 1.50 "
20x22 1.50 "
With 13-inch base 2.25 "
Write for price list of Standard Flower Pots, etc. The best vase in the market for the money. The lowest prices for pots.
HILFINGER BROS. POTTERY,
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AUGUST BOLKER & SONS, Agents.
150 and 152 West 24th Street, New York City.
Mention American Florist.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

SOLD ON THEIR MERITS AND NOT ON THEIR ANTIQUITY.

ROYAL HEATERS

THE RIGHT KIND of BOILER for a GREENHOUSE.



HART & CROUSE,

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"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Potterv Companv,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS

Our new **Pottery**, new **Machinery**, the very **best Clay** in the **Country**, and our new **Patent Kilns**, all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,

GEORGE MESSINGER, Manager. East Brookfield, Mass.



GREEN-HOUSE HEATING.

MYERS & CO.

1518 & 1520 S. 9th St., PHILADELPHIA.

Send for catalogue and price list.



GREENHOUSE HEATING AND VENTILATING.

Superior Hot Water Boilers

JOHN A. SCOLLAY,

74 & 76 Myrtle Ave., Brooklyn, N.Y.

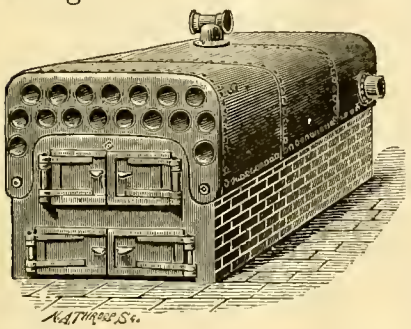
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ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers.



Capacity from 350 to 10,000 feet of four-inch pipe.

SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,

OFFICE, 69 DEARBORN ST.,

WORKS, 56th & WALLACE STREETS,

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TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

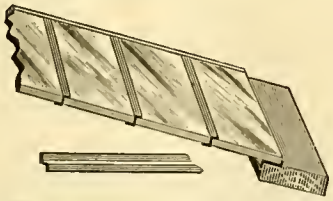
DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

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THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
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IMPROVED GLAZING.



GASSER'S PATENT ZINC JOINTS for butting glass makes greenhouses air and water tight; also prevents sliding and breakage from frost. Does not cost as much to heat a house glazed with the joints, thereby saving enough in fuel to more than pay the additional cost of glazing. The leading florists of the country are using them. Write for circulars with full particulars and price list.

J. M. GASSER, FLORIST,
Euclid Avenue, CLEVELAND, O.

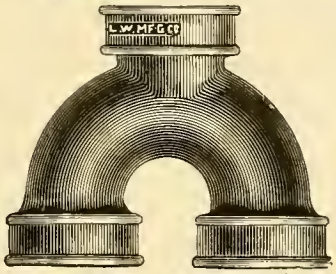
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The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also Champion Soil Pulverizer and Sifter.

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Greenhouse Pipe and Fittings.





Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST.

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS,

FOR GREENHOUSES.

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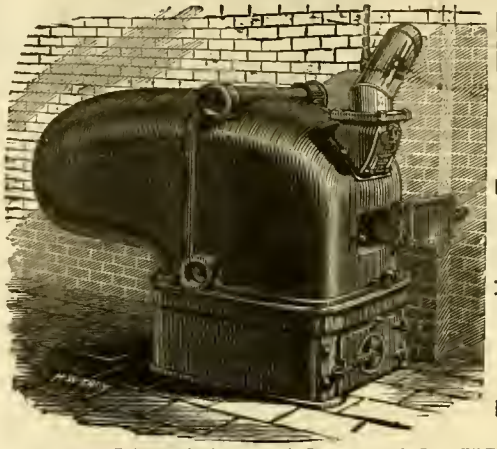
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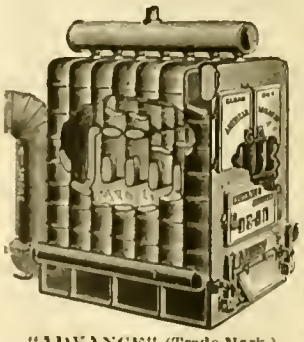
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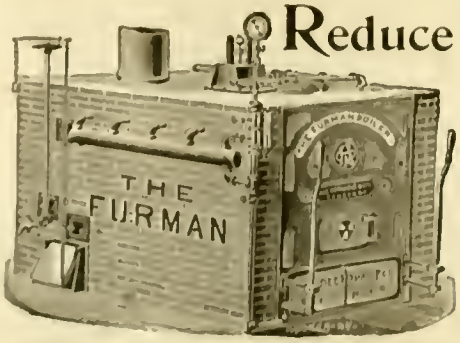
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Vol. IX. **CHICAGO AND NEW YORK, MAY 24, 1894.** **No. 312**

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SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. Tenth annual meeting at Atlantic City, N. J., August, 1894.

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The One Judge System.

I obtained my information on this subject mostly from the AMERICAN FLORIST and other horticultural papers. Mr. Stewart has the same opportunities as I have, but if he does not "read, mark, learn and inwardly digest," he has only himself to blame if he is tripped up when making random assertions, and it requires no "occult power" to do the tripping. This is a busy time of year with me but when things are a little slacker during the summer I shall be happy to search out "chapter and verse" for the benefit of Mr. Stewart and ask the AMERICAN FLORIST to publish a list of societies using the above system, although it is getting rather off the track of the original question and doubtful if the "readers of the AMERICAN FLORIST" much care for old news.

A. H. EWING.

Toronto, May 19, 1894.

Chicago Parks.

LINCOLN PARK.

Seldom if ever have our parks looked as well in the middle of May as they do the present season. Trees, shrubs and in fact all vegetation presents an appearance more like June than May.

Lincoln Park is fast putting on its summer garb. Bedding commenced last Monday and is being pushed forward as fast as a large force of men can handle the stuff. Mr. Stromback, headgardener, thinks there is no longer any danger from night frosts in view of the extraordinary forward season, although the bedding out of alternanthera, achyranthus, cannas, etc., has never before been attempted at such an early date. The beds of geraniums, verbenas, stocks and all of the more hardy varieties are nearly finished. The carpet bedding is now in progress. Coleus, heliotrope and the most tender bedders will of course be left to the last. It is expected that everything in this line will be practically finished in about a week, weather permitting.

The borders of hardy and half hardy perennials are beginning to look quite gay, attracting a good deal of attention from lovers of this class of plants. All the varieties without exception have wintered admirably and very little replanting was found necessary. Aquilegias in great variety are in full bloom. The fine assortment of irises promises a fine show. The first blooms are just opening. Among other varieties in bloom now we note Primula auricula, Gazania splendens, Lychnis plumarius rubra, Heuchera sanguinea, myosotis, cerastium, Papaver bracteata, etc. Scattered through these borders with happy effect we find a number of our native wild flowers. Of these we find the anemone and phlox in full bloom, adding greatly with their modest charm to the general effect.

In pæonies, the early red is the only sort now in bloom; the later varieties are looking fine. The Cannell collection from the World's Fair has been added to this group, and will prove interesting, as well as that of phloxes later on, which was obtained from the same source.

Some additions have also been made in hardy roses both standard and bush, all looking remarkably well. In speaking of standards Mr. Stromback states that very little trouble is experienced in wintering them successfully. The plants are laid down in the fall and covered with dry oak leaves, over which boards are placed in such a position as to shed the rain, it being essential to keep them as dry as possible.

The conservatories, attractive at all times, are at present ablaze with gorgeous color. In the north wing the central group of rhododendrons from the Moser collection makes a superb show. These specimens are large and apparently stood the severe test of our summer climate without injury. Some of the finest varieties now in bloom are R. album elegans, Chas. Bagley, Leviathan, Stella and Sir Thomas Sabright.

Arranged in a semi-circle on the side benches is a splendid assortment of calceolarias, still in fine condition although a trifle past their best. Fuchsias in great variety, pelargoniums, some late varieties of azaleas, genista, cannas and many other sorts add their wealth of color to the general effect.

In orchids we notice several pieces of Odontoglossum citrosmum with fine spikes of flowers. Also Oncidium altissimum in bloom.

The fine collection of fancy caladiums, now being rapidly brought forward in the stove house, will soon be added to the display in the show houses.

The ponds of aquatics are looking well. Already the surface of the water is well covered with foliage. Victorias planted out April 20 show leaves 2 feet in diameter. In nymphæas N. zanzibarensis and scutifolia are beginning to bloom and a number of others are showing bud.

HUMBOLDT PARK.

This park, though not as large and pretentious as Lincoln or Washington parks, has still a peculiar charm to the visitor that cannot be found at either of the others. There is a rural aspect to its architecture that is very pleasing, but some of the rural features are carried rather to excess. We admire a green lawn and would like to see a lawn mower used occasionally to keep the grass in bounds. We may not object to a few dandelions dotting the lawns in the spring of the year, but we draw the line at allowing them to go to seed. It seems a pity to spoil the charms of this beautiful little park by letting this plant, which really becomes a pest, overrun the lawns to such an extent that the grass is almost entirely choked out. It is perhaps next to impossible to entirely keep this weed out of the lawn, but it certainly can be kept in check. At any rate it should never be allowed to go to seed. And it is not the park alone which suffers. The winds carry the light and fluffy seeds in all directions, contaminating the neighborhood for miles around. What use is it for the lot owners in the vicinity to keep grubbing out this weed when the park management keeps up acres of nurseries? But where lies the fault? It appears that the superintendent and gardeners are not to blame for this state of affairs. It is claimed on good grounds that the force of employes is entirely inadequate to run things properly owing to a lack of funds.

But what becomes of the large sums of taxes yearly collected for the support and improvement of the west side parks? "Improvements," so called, have swallowed up by far the largest part of these

moneys with very little to show for it, leaving but a meagre sum for running expenses.

This park indulges in the luxury of a rose house, which some of our larger parks can't afford. This house, which is about 100 feet long with a side wing of 50 feet, has cost the tax payers $16,000. The roses are grown planted in benches for cutblooms. But for whose benefit? The general public? Possibly, but we rather doubt it. This reminds us of a little incident which occurred the other day while visiting one of the west side parks. While conversing with a gentleman in charge a young man came rushing out of the office, and without taking the least notice of our humble self, wanted to know of our friend the reason why a certain number of bouquets hadn't been sent at a specified time to the residence of commissioner ———, mentioning by name a well known member of the board, an appointee of our governor. Well, this young man informed our friend, the headgardener, that Mr. Commissioner was raising particular sheol about his bouquets and he had better hustle them over on double quick time. What could our friend do but obey orders or else lose his official head? So two of the men were taken from their work and sent to pick flowers while another employe made up the bouquets, and still another man was finally despatched to deliver the goods. Perhaps this accounts for the presence of the rose houses at our parks.

Very little bedding out has been done yet at Humboldt Park, but there is a fine lot of well grown bedding stuff ready to go out. Mr. Kleppin, headgardener, intends to keep on the safe side and will not venture bedding out anything except geraniums until next week.

The conservatory contains some fine specimens of palms, clean and well grown, notably some half a dozen Corypha australis which are the best we have seen around Chicago. Also several very fine Latania borbonica and Pandanus utilis.

Since writing the above we have experienced one of those phenomenal changes in the weather to which Chicago is no stranger. Ordinarily such changes would excite little comment, being of frequent occurrence, but the extraordinary severity of the weather for the last 4 days following a season of unprecedented warm, and at times almost tropical, heat, was, even to our natives, a surprise.

A drop of temperature from nearly 90° on Wednesday down to the freezing point in a few hours with a furious northeast gale, blowing steadily for 3 days, has had a very damaging effect on all outdoor vegetation. The foliage of trees and shrubs in the most exposed positions were blown to shreds, and even in the most sheltered spots, more or less damage is noticed.

Of course bedding out has come to a sudden halt. Fortunately, in our parks at least, the most tender plants still remain in the hotbeds or greenhouse. Achyranthus and centaurea, a few of which had been planted, suffered severely and will probably have to be replaced. Alternantheras and echeverias on the other hand show but little the effect of the cold winds. Geraniums are in a dishevelled and bedraggled condition, but otherwise uninjured.

This season has therefore proved again that it is unsafe to attempt bedding out in this latitude until the last days in May, no matter how far the season may seem to be advanced.

The Arrangement of Flowers.

V

FLAT BOUQUETS SUITABLE FOR FUNERAL.

Loosely and tastefully made up bouquets are now among the most popular arrangements for funeral purposes, there having been a decided falling off in the call for set designs. Offerings of flowers in these forms are never objectionable and they can be used equally well to adorn the casket or to decorate the room, and finally the grave.

These bunches may be made so simple and inexpensive as to be within the reach of the poorest, or so rich and costly as to suit the purse of the millionaire. Probably fully one-half, if not more, of all the flowers used for this purpose at the present time are used either as loose flowers or in bouquet form. It happens therefore very frequently that we have a number of these bunches to make to be sent to one address and at the same time most people will leave their order with instructions to avoid if possible a duplication of arrangements ordered by others.

In general form, all being flat (we are now considering this style only), these arrangements are necessarily much alike, but by proper selection of material and changes in detail, we are enabled to obtain different results. At certain seasons of the year the stock at our command is so varied that little difficulty is experienced in arranging a dozen or more quite distinct styles, but at other times our choice of material is very limited, and one is often at his wit's ends to avoid a duplication. Fortunately at present we are not confined to white flowers only, as in former years, in funeral arrangements. Not alone are pink and cream tints admissible but frequently we are requested to employ Beauties and even Jacqs.

Let us now consider a few of these bouquets in detail. Our first illustration shows a bunch of outdoor grown lily of the valley. This flower is much used for this purpose and it makes one of the daintiest arrangements. It can be used either individually, as in this case, or in combination with other flowers, more particularly with roses or violets. These flowers are at command nowadays at any season of the year and even in midwinter or midsummer are generally quite reasonable in price. Quite a handsome bunch may be furnished at from $5 to $10 according to the season of the year. The bouquet we show contains about 100 sprays. In its arrangement the natural foliage of the flower only is employed, with the exception of half a dozen fronds of adiantum for a finish. This finish of green is used in lieu of ribbon. If ribbons be used we prefer them rather narrow. The arrangement of these however in their various forms will form the subject of a future article. If the bouquet to be made is small, say 3 or 4 dozen flowers, and the stems of these are fairly long, we can get along without the use of wire, but for the larger bunches, especially if arranged in long spray form, the wire is indispensable. Besides if the bouquet is to be made quite long we need a support for the back. To use a stick (match sticks are often used) is not desirable, as these are apt to break if bent, which is often found necessary in bending the form into a desired shape. Cane answers the purpose much better. Cut a piece of desired length and wind around it some green material. Smilax will answer, the purpose being to hide the cane from view on the reverse side of the bunch. For wiring flowers use No. 22 or 24 wire, take 3 or 4 sprays of the blooms with a leaf or two and twist the wire around the extreme lower parts of the stems. The arrangement is simple enough. Take up the supporting piece of cane, which forms the back bone so to speak, and hold it in your left hand and wind in your flowers in the desired shape. For tying, as has been stated before, white spool cotton has been generally used, but in recent years, since silkaline has come into use for smilax, this material also is growing in favor for use in bouquet work. It is in every way superior to cotton, being much stronger and in weight not much heavier, besides the string will not show, the color being nearly that of the foliage; but there is a material difference in the cost and for that reason the former is more generally used. Be careful not to let any of the wire show. This should not apply alone to the front view of the bouquet but also to the reverse side as well, which should be backed up with green. If valley leaves are not sufficient use ferns. Where no ribbon is used the stem of the bouquet should be finished by reversing some of the flowers in irregular form, as shown in the engraving.

Illustration No. 2 shows a bunch of roses, about four dozen in number, one-half Brides, the other half Mermets. The two varieties are arranged on a diagonal line, each kind separate. As both of these sorts however are of the same shape, and as pink shows white, as is well known, in a photograph, the division lines of the two varieties do not show in the picture.

The arrangement of this form is materially the same as of No. 1. The stems of the roses generally are of such length that an artificial back support is unnecessary. If, however, the stems are insufficient in length, use the support as directed. In an arrangement of this kind very few of the roses will need wiring. Never use the wire if it can be avoided, the more natural the flowers droop the better the effect. The stem of this bunch is shown unfinished. In most cases ribbons are used, with either a few buds or a bunch of valley or violets tied in with the ribbon. If finished without the ribbon reverse a number of roses and tie in somewhat in the manner shown in No. 1. In all rose arrangements of this kind adiantum may be used liberally with good effect. A number of other varieties, either separately or in combination, can be used equally well. Mme. Watteville is one of the very finest sorts for this purpose. This variety and Bride or Niphetos, Roman hyacinths or valley, make a fine combination. Cusin, La France and Bridesmaid are all good.

Our last illustration is of a combination of L. Harrisii and white tulips (Pottebakker white) arranged on a background of three cycas leaves. Arrangements of this kind, where the larger forms of flowers are employed, are generally tied with ribbon, which should be broad, say number 16, or if the bunch be quite large even wider than that. The arrangement of this form can be seen at a glance, and needs no explanation. It is needless to add that no wires are necessary. For green in addition to the cycas leaves we should use the larger forms of ferns. If A. princeps or any other sort of that type can be had we will find those the very best, but if only wood ferns are at hand these will answer. A few fronds of the lighter form of adiantum can be arranged to droop over the ribbon with very good effect.

Lilies, particularly Harrisii and longiflorum, are in great demand for occasions of this kind. Generally speaking these flowers show to the best advantage when arranged separately, and a combination with other varieties of flowers requires



ILLUSTRATION No. 1.

ARRANGEMENT OF FLOWERS.

judgment. A combination of Harrisii and Dutch hyacinths, especially lavender or dark blue, is in good taste, and tulips, either white or pink, give a good effect. But the lily is too heavy a flower to combine with Romans or valley. Roses too seem to lose in effect when combined with lilies. Lilies may be tied with royal purple ribbon with fine effect, but be careful to select the right shade.

Society of American Florists.

The Trunk Line Passenger Association, which represents all the railroads entering New York and Philadelphia, has, in response to the customary application for reduced fares in favor of members of the Society of American Florists attending the convention at Atlantic City next August, decided that it will be impracticable to apply the usual reduction on the certificate plan, the meeting coming at the busiest part of the season and at a time when summer excursion rates are in operation to Atlantic City and other large resorts. It therefore becomes necessary for those members intending to go to the convention to make early arrangements with the lines over which they shall travel, endeavoring to travel in as large companies as possible, as in this way the most favorable rates will be secured. Delegates from districts represented by a few only should communicate with those having charge of the transportation from the most convenient large city or railroad centre, and thus get the benefit of such low rates as may be secured from such points.

It should be borne in mind also that Atlantic City is a very busy place in August, the normal population of less than 20,000 being at that time increased to possibly 100,000 or more. For this reason it is very desirable that accomodations at hotels or cottages be secured in advance, or otherwise much discomfort may be encountered.

In connection with the above it may be well to add that the Chicago Florist Club has already secured a very satisfactory rate from one of the best lines and florists in the west and northwest are at liberty to take advantage of same by travelling with the Chicago party.

The Market.

The cut flower market seems to be pretty well demoralized all over the country. Can nothing be done through unity of action toward placing the market on a better basis? We invite suggestions from our readers and will be glad to have a general expression of opinion.

In this connection will it not repay every grower in dollars and cents to do everything in his power toward making the fall exhibitions successful. Leaving out of consideration the fact that the shows disseminate an interest in and love for flowers, and thus create future business, is not the immediate effect on the market most beneficial? The flowers used in making the exhibition are taken out of the market (most of them bringing extra good returns to the growers) and it is relieved to just that extent. If the exhibitions in the large cities were discontinued wouldn't the glut at chrysanthemum time be much worse than at present? If that is true then is it not of direct profit to the grower to encourage the exhibitions that more and better premiums may be offered in future and thus afford further relief to the market? But this requires something more than moral support. You should not only be an exhibitor but you should be active in helping to advertise the show and make it a financial success. Make it your business to influence your grocer, your druggist, and other storekeepers with whom you trade to hang one of the chrysanthemum posters or other advertising matter in his window or other place where it will do good. And exert yourself also to see that one is given a conspicuous place in your suburban railroad station. All working together in this way a great deal of valuable advertising can be had at slight cost. And to make an exhibition successful we must advertise! advertise!! advertise!!!

Exhibition advertising must be cumulative to produce the best results. To the enthusiastic lover of flowers one announcement may be enough (if he or she sees it) but the others can be won only by continued invitation. Out of 1000 people who see a first announcement probably no more than 50 may be induced to attend. But an effect will have been made upon the others and that effect may be so strengthened by a second announcement that 50 more will be won, and another 50 by a third one. We are thoroughly convinced that by thorough judicious advertising fully 5% of the population of any city can be brought to pay admission to a really worthy exhibition. If a small city, the attendance can be raised to 10% of the population, as it will be easier to make every one acquainted with the event and anxious to attend.

If no arrangements have been made for an exhibition in your city this year take steps now toward having one held. There is money in it for *you* as well as every other member of the trade in your city.

Call a meeting of the florists of your city together now and make your plans without delay. We shall make it our business to help you in every way in our power. Ask any questions you wish and we will get replies for you from the best posted men in the trade.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

On every side growers tell us that they will grow more carnations next season. Many are planning to put up additional carnation houses and quite a number are starting new into the business. This is all right to a certain extent but there is danger of overdoing the carnation business as well as any other. Just as soon as there are too many carnations on the market for the demand, so soon will their popularity be lowered and with it the prices will go all to pieces. It is characteristic of human nature to think when any thing becomes very cheap or is seen in quantity everywhere that it is common, and then they will cease to use it no matter what its merits are.

A good carnation should never be sold at less than twenty-five cents per dozen; it does not matter so much if the second class stock is sold out cheap but it does matter very seriously if the better varieties of carnations are sold below that figure. In some of the smaller towns (Lancaster for example) it is nothing unusual to see good carnations sold for ten cents per dozen; the consequence is that the better class of people who could and would pay a fair price look on them as a common article and take something else in their place.

Should present indications regarding the number of growers for next season be realized the result will be an overstock that will work an injury in every way. It will be well to seriously consider this matter before investing much money in carnation growing. In the first place are you sure of a good remunerative outlet for them? if you are and grow good stock there is no better business you can engage in, but if you are not, the many ups and downs you will have to encounter will make it the poorest business you could engage in.

There is not so much danger of an over supply of really first-class carnations, and it will be well for the grower starting into the business, the grower increasing his plant and all of us to produce only the finest of stock. To grow such stock requires plenty of capital and not a little ability and unless one has a fair share of both it is best to go very slow for the first season and see what he can do before plunging into it too deeply. The days of "any place is good enough for the carnations" and "they don't take much attention" are over. To be successful now they must have the best of places to grow in and the constant care of a good man. Neither is there any use of growing the older varieties any longer. If one wants to be on a fair basis in the market with other growers he must buy the best of the new sorts and not look to a few dollars one way or the other in stocking up his place. The long and the short of it is that the days of starting at the foot of the ladder are about over; you have got to start near the top or might as well not start at all. It is all well enough to start in a small way for experience but not to make any money out of the business and that is the object most of us are striving for. "First be sure you are right, then go ahead."

There are still some growers sending in orders for carnation cuttings, with the idea, I suppose, that half a loaf is better than no bread, for cuttings planted from the sand now are little more than half a loaf for next winter's blooming. A good cutting planted from the sand about May 1st and given a little extra care and attention will make a very good plant for next winter's blooming, but take that same style of a cutting June first and it is just a month too late. If you must depend on cuttings obtained now the best plan is to plant them on soil made very rich with well rotted manure and if possible where they can be flooded with water if it turns very dry. But a far better plan is to let them go entirely and depend on good, well-grown field plants that are offered in quantity in the fall by advertisers in this journal. Do not understand me as trying to advertise myself for I do not grow field plants for sale, but I honestly think that it is better to get the field grown plants than to depend on the cuttings planted now.

It is a good plan to take a walk through your carnation patch at least once a week. It will not hurt the patch and you may see something that needs attention that will more than repay you for the bit of time it takes. Very often there is some new insect or fungoid enemy that will develop in the patch and by being on the watch constantly you will see it in time to check it. There is nothing like being on time in all such cases. Prompt action may mean the saving of quite a few dollars.

I have before me an inquiry regarding an insect that eats out the base of the calyx in carnation flowers thereby causing the petals to drop. It is described as about one-half an inch long with a green body and hops like a grasshopper but does not have the legs of a grasshopper. Do any of the growers know anything about it and a remedy for ridding the plants of it?

That is quite a good idea of the FLORIST to keep the formula for the prevention of rust constantly before us, and we will be wise to heed the advice given. It is only by every grower determining to fight the rust with all his might and main that we can expect to accomplish much toward eradicating it. If you do not have the rust and your neighbor has and allows it to go unchecked, you are more than likely to get it from him, so it will be well to remind him that there is a cheap and effective remedy that will at least keep it within bounds.

I have a batch of a novelty that came to me laden with rust. We dipped them in the solution mentioned above and whenever we see a speck of rust developing we pinch it off and dip again. In addition to this we are growing them in the greenhouse in five-inch pots, intending to use them as a test to see if plants that are badly affected from the parent plant can be entirely cleaned of it without serious injury to the plant itself.

ALBERT M. HERR.

Miscellaneous Seasonable Hints.

The last week of May and first of June is the time, in this locality, for filling vases and veranda boxes. If the boxes are not over 6 feet long they can be filled at the greenhouse and carted to their destination. It is more satisfactory to fill boxes and vases at the greenhouse, because you have a much larger choice of plants, and can devote a squad of men to this particular job for whole days or weeks. Wherever they are filled the same remark will apply, as it does to hanging baskets; let the soil be of the richest, for long before summer is over the soil will be heavily taxed by such a quantity of plants crowded into a small space.

Avoid using any plants that have a natural tendency to red spider. Ageratum is one of the worst for this pest. It starts on such plants and quickly envelops the whole lot.

For upright plants you must be guided a good deal by the aspect. If entirely on the north side, or only getting a little of the morning sun you can use Begonia Rex and fuchsias to advantage, and other plants that thrive in the shade, but if exposed to plenty of sunlight the following will be found a good assortment: Palms from 18 inches to 2 feet high, of inexpensive kinds; Kentia Belmoreana and Forsteriana, Chamærops Fortunei, Phœnix reclinata and dactylifera, Corypha australis, and if not too sunny Latania borbonica and Areca lutescens. In ferns Nephrolepis tuberosum and exaltata; the former is much the best and almost indispensable. Dracæna indivisa and australis, and geraniums of compact growth and tough constitution. There are few better than F. L. Raspail, bright scarlet; P. Daubeck, light scarlet, very robust; Ernest Lauth, purplish crimson; La Favorite, white, all semi-double. Acalypha in variety, coleus and achyranthes in variety, begonias, the ornamental leaf varieties, such as metallica, Olbia and others. Begonia Veruon is a fine thing and easily raised. Caladium esculentum when desired, if they are very large boxes, but in limited quantities, as they smother everything else. Anthericum is a good plant for the purpose, and thrives under any conditions. *Don't* put in feverfew, anthemis, fuchsias, or show pelargoniums; however attractive they are at the start they quickly go out of flower and look shabby.

For droopers we use vincas, variegated and green; senecio; glechoma; variegated money vine; lobelia, dark and light blue; nasturtiums; ivy geraniums. The newer varieties of these are magnificent. Ipomæa Mortonii, single petunias; abutilon Vexillarium, double sweet alyssum, and a few others.

The surface of the soil should always be covered with green moss; it prevents the soil being washed, looks neat when first filled, but above all prevents too rapid evaporation. If you are asked to make a veranda box for a customer a good useful size is 7 inches deep, 9 inches broad at top, 8 inches at bottom, inside measure, and any desired length.

You should plant out a good lot of your first sown asters now for your own use. It is time yet to sow for a late crop; you can sow these outside. The end of this month is a good time to sow primulas that are wanted in bloom by Christmas. Place the pots in the coolest house or a cold frame well shaded.



ILLUSTRATION NO 2.
ARRANGEMENT OF FLOWERS.

Don't neglect in this busy time your young cyclamen. They should now be in 3-inch pots, and keep them growing and free of red spider and their great enemy greenfly.

Don't overshade tuberous rooted begonias and gloxinias; the full rays of the sun will hardly do, but a light shade is sufficient. Gloxinias need lots of shade when their beautiful flowers are out, but not before.

Allow me to digress a moment, just to say that it is impressed on me more and more every day that the successful cultivator of the future is not he who can pot fast or well, or even build fine houses especially adapted to the plant he grows, or even any other mechanical operation in the business, or the regulation of heat and moisture to the exact requirements of his plant, but success will attend the man who will faithfully, intelligently and vigorously fight the many vegetable and animal pests that are now trying to exterminate our cultivated plants. You can learn a smart boy to shift a plant or to handle the hose, syringe, or watering pot, in a few months. You can easily get a man to keep your temperature at the right notch. But how seldom you meet him, and what a jewel he is, who will come and tell you that spider is making its appearance on this plant, more smoke is needed in that house; slugs are getting too thick among the ferns; mealy bug must be attended to among the palms; Bordeaux mixture must be applied in another house and anthracnose is in the cutting bench. He is a gardener and should receive credit for it. A man, whether he is an amateur or the boss himself who will pass a plant complacently and see it in distress either from want of water or the attacks of enemies without a pang of distress himself will never make a gardener, and is only of use to you for the amount of mechanical work he can do.

As soon as the benches can be cleared of your spring stock, and 4 or 5 inches of good heavy loam put on them, plant out chrysanthemums; the middle of June is a good time to plant those that you want to have from two to four flowers each, so a plant that has been stopped once is about right. The plants you want for pot plants to be lifted early in September can be from the same stock, although a young thrifty plant in a 2-inch will do just as well, and keep it pinched several times during the season. Chrysanthemums must have no shade at any time of their growth; I am convinced that shade is conducive to that rust which attacks them in August or September.

There is plenty of time yet to propagate more stock and don't forget to keep the sand saturated; twice a day water them, if weather is bright, and never let them wilt during their existence. For the single stem plant in 4, 5 or 6-inch pots, which are becoming more fashionable every year, the middle or end of June is plenty of time to propagate.

If you have any young plants of Linum trigynum in 2 or 3-inch pots plant them out in open ground; they are not yet common, and will be a good Christmas plant. Lift about end of September, and keep well syringed and pinched to produce a compact plant. WM. SCOTT.

Hot Water Under Pressure.

ED. AM. FLORIST:—As the advocate and introducer of the hot water under pressure system for heating greenhouses, allow me to object to some of the remarks made of late by some of your correspondents as to the efficiency and economy of the principle, showing conclusively that they are not well acquainted with it. To begin with the use of common steam and common hot water boilers is to be deprecated as they are not adapted to it, lacking both the power required, and in the case of the last ones, generally made of cast iron, are not safe to use under much pressure, as we well know by experience. Coils made of small steam pipes (from one to two inches) are the only ones to be used to advantage, as the small quantity of water contained, circulating over the fire so many times will be heated to a very high degree, forming superheated water, as they call it, while in steam and hot water boilers, the water circulating only once over the fire, coming in at one end and out at the other, cannot be expected to be very warm. Of course the coils can only be used under pressure as they will generate steam and drive the water out the apparatus in a few minutes.

Our favorite form of coil is the elliptic one, made double or treble by having several coils inside the other, leaving in the centre an opening of 9 or 10 inches to act as a coal magazine, being fed from the top, and the coil about a foot from the grate. A coil made on that plan, two feet high and two feet in diameter, and a shaking grate to correspond, will easily heat from two to three thousand feet of 2-inch piping and carry coal enough to last from eight to twelve hours without replenishing, with an occasional shake at the grate. For a larger amount of work we use horizontal coils which can easily be increased to any size required.

In our houses we use the pressure of a large tank, some 40 feet above the boiler or coil, with the connecting valve (¾-inch) closed about three-quarters, and the supply on the return, so as not to impede circulation, and that has given us the best results, showing a net saving of one-third in the first outlay of construction, one-third in fuel, and another third in heating capacity over other systems.

We had occasion, some 40 years ago to use Parkinson system of high pressure (75 to 100 pounds) and 1-inch piping

throughout, and we must admit that it was the most effective mode of heating we ever saw; the drawback was, however, that under such pressure, contraction and expansion of the pipes, it caused too many leaks. Our system is only a modification of it, using larger pipes and less of them, retaining the use of coils, however.

We have heated quite a number of houses, and dwellings houses also on both tank and closed plans of pressure without any marked difference, both ways proving eminently successful, comparing with other ways of heating.

Needham, Mass. DENYS ZIRNGIEBEL.

New York.

Trade with both wholesalers and retailers is worse, if possible, than ever. There is really nothing to do for half the men employed. This would not cause any comment if it was four weeks later; it is the fact of its coming so early in the season that gives it its significance. Outdoor bloom is being received in enormous quantities and while it does not bring enough in most cases to pay express charges it is a decided injury to the legitimate greenhouse stock.

Siebrecht & Wadley are much pleased with the reception which their new rose Belle Siebrecht has been accorded by their customers this season. Many baskets for dinners and other occasions have been made of it. It has proved a great keeper and the color always good, lights up gloriously by gas or electric light. It is coming now with strong stems and fine foliage.

Among the choicest flowers now being received are blooms of Cattleya Trianæ of the grandest forms and great variety of coloring. In the simpler stock are to be found yellow Sweet Sultan, campanulas, etc., which seem to be as highly esteemed as their more showy companions.

Mr. Thos. W. Weathered will sail on his customary summer visit to England on May 23.

Mr. Francis Fell of Tottenham, London, is in town.

Boston.

The demand continues very light and irregular in the cut flower market. Much of the stock coming in finds its outlet through the street fakirs, who get it at their own price. Ten Mermets for a quarter is the standard price on the street corners at present. Figures are tending downward on everything. Outdoor valley is very abundant. Sweet peas are sold as low as fifty cents a hundred.

James Comley is planning a Japanese garden. It will comprise about two acres of ground and will reproduce as nearly as possible the peculiar features of ornamental gardening as followed in Japan, with bridges, grottos, arbors, dwarfed trees, etc. A tacsonia raised from seed procured by Mr. Comley in Japan is now flowering. The blooms are large, pale rose, and borne in great profusion.

P. B. Clapp will add 5000 feet of glass to his establishment in Dorchester this season. Lord & Burnham have the contract for the houses, which will be of iron frame work with iron benches and best construction throughout.

A long disputed point has at last been settled by the compulsory removal of Galvin Bros'. Back Bay store from the Hotel Vendome. Stipulations in the deed of the property which forbid the encroachment of any business upon Commonwealth avenue property are the cause.

Bowditch & Co. will also be obliged to find a new location within a few months, as the Tremont House in which their store is located is to be torn down to make room for a large office building.

The greenhouses of Charles Fottler at Dorchester have been taken by the city, the route of one of the new boulevards passing right through the property.

Mr. C. M. Atkinson exhibited some finely bloomed plants of Cattleya Mossiæ, Lælia purpurata, dendrobiums and odontoglossums at Horticultural Hall on May 19.

A. W. Crockford, of Medford has made an assignment to D. Pendergast, of Malden.

D. F. Grant, South Boston, has also failed.

Chicago.

The sudden drop in temperature has had the effect of shortening the rose crop. The careful grower has of course resumed firing and no bad effects in quality are as yet apparent. Speaking of quality, however, roses, with few exceptions, are rather poor. Carnations also are getting smaller, although the quantity sent in seems larger than ever; the demand for these is very light at present. Pæonies, which are now received in large quantities from southern Illinois and Indiana, are a drug in the market. The best selected go at $1 for 3 dozen, though last year this same stock brought easily 75 cents per dozen.

The whole market is in such chaotic condition that there is no longer a settled price for anything. Nominally the wholesale men quote stock at last week's figures, but the demand both local and shipping is so light that there is no pretense of sticking to settled prices.

Retailers without exception agree as to this spring being the dullest season ever experienced.

Jos. Curran had a novel dinner decoration which was given by the Fellowship Club at Kinsley's. The tables were set under a tent erected in the ball room, a la Turk. Around the tent a border of green sods about two feet wide was laid. The space between this and the walls of the room was spread with gravel and sand, in effect to carry out the idea of an oasis in the desert. The corners of the rooms were banked with fine groups of palms. The table decoration consisted of a profusion of white pæonies set in vases (the table linen being red), making a fine effect. The guests entered over a gravel path which was flanked on either side by a magnificent vase of American Beauties.

The Lincoln Park board has reorganized with Andrew Crawford as president. In a recent interview with a reporter for a daily paper Mr. Crawford is reported to have said that he thought highly of Superintendent Pettigrew, but still more of harmony in the board, and that therefore Mr. Pettigrew would have to go. This announcement is the most remarkable of the series of wonderful explanations that have yet been made in this case. The old board was unanimous in resisting the governor's demands that Mr. Pettigrew be removed to make a place for an "engineer." The governor therefore removed the commissioners who had the manhood to refuse to execute his behests and appointed men who would. And now Mr. P. must go in order to preserve "harmony" in the board. In view of the facts, well known to every reader of the daily press in this city, such a statement is an insult to the intelligence of the people such as we did not expect, even from the representatives of "Supreme Park Commissioner" Altgeld.

In the meantime Mr. Pettigrew has received offers of positions at much better salaries than that he has received as superintendent of Lincoln Park. A change will mean for him increased financial returns, but his heart was in his work at the park and he takes his leave sadly. Chicago will be the great loser and the name of Altgeld will be execrated for years by all friends of horticulture in this city, and, indeed, in the whole west.

For the next two years this man will have control of the north and west parks, and the damage that will be done in that time by "political engineers" can hardly be calculated. But when his term expires there will once more be an opportunity for progress, for Altgeld could never again receive the nomination of his party, to say nothing of its vote. A most significant fact in this connection is that the club of German-Americans which was a prominent factor in securing his nomination two years ago has since repudiated him utterly and absolutely, the feeling being most conclusively shown by a heavy adverse vote upon an application by one of his friends for permission to hang his portrait in the club's gallery of prominent German-American citizens.

Battery D has been selected for holding the chrysanthemum show of 1894. The battery is now much better adapted for the purpose than formerly, as during the World's Fair period it was well finished off inside for use as a concert hall. During all last summer it was known as the Trocadero theatre. There is a feeling among the members of the Horticultural Society that no effort should be spared to make the show fully equal to, if not better than the World's Fair show of last year, and the affair will be laid out on most liberal lines. The show will last a full week, with fresh competitions almost daily. The prizes offered are worthy the attention of every grower in the country and in the cut flower classes there will undoubtedly be entries from a considerable distance. Competition is open to all. The show will be very liberally advertised and the management will be disappointed if the attendance does not equal or exceed that of last year.

Our announcement in last issue that an appropriation had been made for new conservatories in Washington Park was a little premature, though the report was given wide publicity in the daily press. We are advised by Supt. Kanst that "The commissioners had talked of building and had thought of spending in the neighborhood of $75,000. Mr. D. H. Burnham has been instructed to submit plans but no appropriation has been made as yet."

The South Park Commissioners have been considering plans for the improvement of Midway Plaisance, which was left in pretty rough condition after the World's Fair. They have finally adopted a plan prepared by Frederick Law Olmsted which provides for the conversion of the plaisance into a canal and boulevard connecting Jackson and Washington Parks. The canal, which will be 100 feet wide, will connect the lagoon in Jackson Park with the water in Washington Park, so it will be possible to go by water from Lake Michigan to the center of Washington Park. This will be a charming water ride on the electric launches that were so serviceable during the World's Fair. The island in Jackson Park will remain as it was during the Fair. The bridges where streets will cross the Midway canal will be of orna-



ILLUSTRATION NO. 3.
ARRANGEMENT OF FLOWERS.

mental character, and on either side of the canal will be two driveways, each 40 feet wide, with boulevard planting. Unfortunately the Illinois Central railroad objects to having a water course run under their tracks and will fight the project, but the commissioners are so sure of final victory that they have adopted the plan regardless. Until the legal fight is finished the space reserved for the canal will be devoted to lawns.

Mr. S. A. Wolcott, of Batavia, was married May 16. The bride was Mary L. Emerson.

Baltimore.

The last meeting of the club was fairly well attended in spite of the planting season being on us, and several questions were debated with vivacity. "What does it cost to grow coleus?" was answered finally by a member offering to grow for $20 per thousand all needed by another who had stated four cents as the cost of producing good plants. Then the question of budded roses was taken up, with a question of ethics tacked to it, by some one who asked "Is it right to sell budded roses without telling the purchaser they are budded?" Of course, the point of the question lay in whether a budded rose is better, worse, or equally as good as one on its own roots, and probably the seller will quiet his conscience if it gives him uneasiness, by persuading himself that at least there are doubts on the subject, even among the membership of so learned a body as the Gardeners' Club.

The cut flower season is about over; here and there, a little life is shown in the market on account of a society event of some kind or other, but in the main the events calling for flowers of fine quality are sicknesses or deaths, the bulk of the flowers purchased for other purposes being out door flowers, sold in the markets.

Plant trade seems much as usual, possibly something of a falling off from previous years, but not enough to seem serious, not even as much as might have been expected considering the stringency of the times, and the numbers of people out of work. MACK.

Washington.

The market florists report trade in bedding plants as being unusually good. Clark Bros., say they have never had such a good season. Prices are keeping pace with the demand and all seem to be happy over the spring rush.

The cut flower trade is holding its own and will compare favorably with other seasons, though the markets and streets are flooded with spring stuff. Roses are excellent in quality and plentiful, but the prices are down in consequence of so many being peddled about the streets.

Hybrid roses at the Botanic Garden, and in fact throughout the city, are remarkably fine and in great profusion this season. They were not far enough advanced at the time of late frost in April to be affected as were many of the other hardy flowering shrubs.

Weigelias are now in full flower in the parks. They show perceptibly the effects of the late cold snap, many of them being killed half way to the ground. They were fine old specimens and would have made a grand display but for the nipping they received. Viburnums have been very fine, yielding more flowers this season than ever before. Hydrangea paniculata grandiflora is beginning to show buds which promise a grand display. They are grouped in some of the reservations and the effect is very beautiful when they are in flower. The collection of German iris at the Botanic Garden is in full flower, making a very attractive feature. I am surprised that some of the varieties of this class of plants are not more generally grown. The flowers of some of the irises are almost as handsome as orchids and are far more fragrant than the majority of orchids. The admirers of these flowers would be well repaid if they could stroll around the borders of the garden at present. Later we will have a fine display of the Japanese varieties. Among these are some very fine flowering ones; they were presented to the Gardens by Mrs. Senator Wolcott, of Colorado (who is a great lover of flowers), who imported them direct from Japan.

The parks are all in excellent condition this season with the exception of one or two of the larger reservations, where the grass has not been kept cut owing to the lack of appropriations for that purpose. Mr. G. H. Brown is pushing the bedding in the parks with the slim force at his command: they have over 100,000 plants out, of which 80,000 are geraniums. Should the weather be favorable Mr. Brown expects to finish the bedding next week, except the K. of P. badges.

The horse chestnut trees which are planted on 13th street from P street to Fla. avenue, N. W., a stretch of about ¾ of a mile, are simply perfect this year, owing I presume to the mild European-like winter. They present a beautiful picture at present, being covered with long spikes of white flowers, with a back ground of rich foliage, giving forth per-

fumes for squares. This reminds one of a trip to Busby Park, near London, where the "Cockneys" go when this tree is in flower, to get a sniff of fresh air and to admire the beautiful. Some forty years ago as many as 6,000 people would go to see this magnificent avenue, a mile in length, the trees being about 80 feet high. But they were planted a little too close, which is a mistake generally made not excepting the Parking Commission of Washington. The horse chestnut should be planted when small, as it is a deep-rooting tree, in fact it would be far better if the seed was planted where the tree is intended to remain (as is best with most of the large seeded trees). The Parking Commission made a strike when they selected this tree for 13th street as the most of that street from P street to Boundary has been deeply filled with fairly good soil (a portion of it was once a fine market garden) thus enabling them to send their roots down to a considerable depth. While this is not a rapid growing tree as compared with other varieties planted on our streets its symmetrical form, handsome foliage, and beautiful flowers more than make up for its slow growth. On the west lawn of the Capitol park stand several fine specimens of this tree, which are more than 50 years old and when in flower they are much admired by the thousands of visitors who find their way to the Capitol at this season, particularly when Congress is in session.

Mr. J. R. Freeman, who has been so dangerously ill, is slowly improving, though he is yet a very sick man. His many friends will be glad to see him out again. May it be very soon.

REYNOLDS.

Buffalo.

As predicted in my last a very pleasant time was spent with Mr. Long at his annual opening on Tuesday last. "Reception from 3 to 5; bowling from 5 to 7;" something like that the invitations read. Mr. Long had his several apartments swept up in very orderly fashion and the sweetest smiles were worn by Mr. L.'s lady clerks. All these little things count. The bulb room had the greatest attraction for the visitors and on entering it, which the writer did rather late, he found the reason very evident and visible. On a long table were spread dainty sandwiches, delicious ices and cakes, and presided over by a most cultured colored gentleman. At the end of the table was a liberal sized punch bowl. There were other kinds of refreshments for the more plebeian taste. As the hour to adjourn to the bowling alley drew near Mr. Long briefly thanked us all for our presence and hoped that another year would see all again assembled for the same purpose and with the same mutual good feeling. Thanks for such a pleasant hour were well worded by Messrs. Constantine, Scott, Cowell, Fry, and President Adams, some of the speakers reviewing the business of Buffalo for the past 20 years and wondering how we could now get along without our commission man. Mr. Cowell's closing remark met with unqualified indorsement. It was to the effect that Mr. Long's "openings" should be monthly in place of annual. Mr. Fry came all the way from Rochester, and several other towns were represented. Every florist in the city should have been present. W. J. Palmer, Sr., was missed. He always adds *solidity* to an affair of this kind but of course the punch went much farther. What's the matter with Christenson, Belsey and Buxton? Want of time is no excuse, for anyone of them will spend more hours on a slight excuse at something not half as enjoyable. Mr. L. had engaged the three fine alleys of the "Silver dollar" and for several hours there was great timber felling. The game was greatly enjoyed by old and young. The only feature of it was that the grayheads and baldheads made much the largest score. Cowell, Mepsted, Scott and "Warhorse" Constantine were on top. Long scored high. Nolan, Rebstock, Barth, Eggert, were in the rush with several more, while Fry, Adams and Milley brought up the rear.

Business is reported as fair. Outside valley is in its prime but will soon be gone. Roses still quite good. Outside tulips are plentiful but not in great demand. There are plenty of carnations and they retail at 30 to 40 cents per dozen. Daybreak is scarce and many more could be sold. Puritan is the white for the spring months; it beats them all, but no one here can get many flowers from it until February. At present Palmer, Constantine and Scott are picking large quantities of extra fine flowers of it.

The most elaborate wedding of the season occurred on Friday on our aristocratic North street, when the daughter of George L. Williams was married to Mr. Keefe. Trinity church was most lavishly decorated with palms and Harrisii lilies, and the same features were carried out at the house. The entire spacious veranda was inclosed with netting on which was fastened laurel (kalmia). In several of the rooms were handsome banks of palms with lilies everywhere. The staircase was trimmed with asparagus with here and there a grand bunch of orchids. Mr. Thorley supplied the bride and maids' bouquets and brought the flowers and made them here *himself*. Scott did the decorations at the house and church. The bride's bouquet was 5 or 6 dozen Niphetos. The bridesmaid's bouquets were of Mermets.

W. S.

Cleveland.

A hail storm of unusual severity paid our city a visit on the 17th inst., doing more or less damage to greenhouses, skylights and windows. For size of hail and duration of storm it was unequaled. Some of the larger pieces of ice that fell measured from eight to twelve inches in circumference and were generally flat in shape, not unlike a common door knob in appearance. Some idea of the force with which the stones fell can be had from the fact that in places the sash bars were dented and fractured, and heavy corrugated glass (in skylights) that was over a fourth of an inch in thickness was broken. The hail fell for about twenty minutes and was followed by a heavy downpour of rain, which added to the general destruction in the greenhouses.

The florists on East Prospect street appeared to be in the center of the storm, as there the destruction was most complete.

Harry Jaynes lost about four-fifths of his glass, and a large number of plants are damaged by broken glass. When he was asked about repairing his houses he said he had not quite decided but thought he would give up the present houses and build a new plant outside the city limits.

At Robert Hughes' place the loss in glass was complete, as only here and there was a whole pane left. His loss is about 10,000 feet. Heliotrope, fuchsins, coleus and other soft stuff was ruined by the falling glass.

The destruction at F. C. Hills' greenhouses was also complete. He lost about 8,000 feet of glass and all his stock of bedding stuff is more or less damaged by the glass and heavy rain, for to make matters worse the storm has been followed by two days of cold rain.

All of the above florists were uninsured, so the loss will be complete. Mr. Hills carried hail insurance for several years and then dropped it. Just now he would feel better if he had kept it in force.

Archibald Campbell, on Cedar avenue, lost about two-thirds of his glass.

Charlesworth suffered in like amount at his place on Sibley street, while his houses on Doane street were damaged to a greater extent.

The splendid range of houses at J. H. Wade's private place were completely ruined, as were also quite a number of smaller places.

James Eadie lost only about 2,000 feet, as they did not get the full force of the storm.

The loss at the Gordon greenhouses was very slight as they were nearly outside the "Hail Belt" this time.

In West and South Cleveland there was very little damage done, and at J. M. Gasser's rose house on Lake avenue there was no glass broken, while at his general greenhouses, five miles further west, there was no hail at all.

This would be a good territory for an agent of the Florists' Hail Association to visit just now.

We also learn that our neighboring towns received a like visit the same day. A wail comes from Canton, but we could not ascertain how much damage had been done.

L. F. D.

Toronto.

The lecture given by Professor J. Hoyes Panton, of the Ontario Agricultural College, Guelph, at the regular meeting of the Gardeners' and Florists' Association, on "Parasitic plants and how to overcome them," brought out a goodly crowd of members and their friends, all of whom went home saying that it was the best and most instructive meeting the Association has ever held, and thoroughly convinced that a move in the right direction had been made in starting a course of scientific lectures.

Professor Panton has the happy knack of making what looks like a dull subject to most people very interesting to folks of moderate education as well as to those who have had more privileges, using language so simple and plain that a school boy could take everything in and digest it.

The lecture was given quite extempore and was illustrated by diagrams of highly magnified specimens of the various plant parasites that are troublesome to gardeners, farmers, etc., in their various stages of development. The professor emphasized the fact that "prevention is better than cure" and said that the best preventive was to "*clean up and burn*" all rubbish likely to be affected or that would harbor spores.

Bordeaux mixture properly made and applied was the best thing to destroy the fungi and prevent it from spreading. Here is his receipt for the mixture, which may be useful to many: Five pounds sulphate copper, four pounds lime, forty gallons water. Dissolve the sulphate copper in two gallons of water, then slack the lime, which *must* be fresh and good (this is important) and strain it through a coarse cloth into the sulphate copper water, then pour in the rest of the water and you have Bordeaux mixture. Half a dozen other mixtures were also mentioned.

The professor now intends to make a particular study of the carnation rust and violet disease and proposes to come down again and give us the benefit of his investigations.

Bedding out will probably begin next week in earnest. As yet only a few small private places have planted anything out. The weather has been cool and wet the last few days, with a probability of some cold nights in the near future.

The Park Superintendent has appointed Mr. E. H. Carter as care-taker of Riverdale Park. The appointment is a good one.

Store trade amounts to very little these days and times generally are very dull, every one economizing. However there are signs of gradual improvement. Toronto is all right, merely a slight temporary indisposition. E.

Philadelphia.

At the last meeting of the Pennsylvania Horticultural Society Mr. Clark, on behalf of the syndicate who are to advance the greater part of the funds to rebuild the hall, stated that he would advise that no active work except that of a preparatory character be commenced until the fall. It seems that a snag has been found in some old bonds which were issued on the hall years ago, but which were wiped out when the property was sold by the sheriff, and bought in by Mr. Schaffer, who held the mortgage against it. It seems that these bonds still stand against any property the society may become possessed of, and if the hall is built as proposed and there is any revenue derived therefrom it might be attached to satisfy these bonds. It was advised to look up the bonds, wherever they could be found, as they are not now of any value, and have the present owners turn them in, so that they should not fall into the hands of third parties who might harass the society. It was also thought well to prepare plans and have the architect selected so that active work could be commenced in the fall, after the vacation season. Quite a number of new members were added to the society, which shows that interest in its work is still being taken by the public.

There are quite a number of more or less elaborate designs made of Cape flowers and immortelles for Decoration Day, Mrs. Wolfe of Broad & Columbia avenues has a large number of these pieces, many of them original designs; they are ordered by business houses, who present them to the various Grand Army posts for use in their memorial services Decoration Day.

Business is very dull, American Beauty roses seeming to be the only flower for which there is much demand; these are to be had at from $1 to $3 per dozen. Sweet peas seem to sell well and bring from $5 to $10 per thousand; cornflowers 75 cents to $1 per hundred. Pyrethrum in various colors sells for $1.50 to $2 per hundred. Harris had a very pretty dark red pæony without a name, very early and a good seller. Mr. Harris is sending a car load of plants to Boston to be sold by Mr. Hatch; the sale will take place next Saturday, 26th inst. The stock is his very best.

Jacob Becker is busy with his chrysanthemums, and from the looks of his stock he will have a very fine lot of plants next fall; they are all to be grown in pots. He has a house planted with La France and another of Marie Guillot for summer cutting.

Growers for sometime have been importing palms from Europe, but now the tide has turned, as a short time ago Mr. Henry A. Dreer sent over a large lot of small latanias. In these days of rapid ocean transit it will no doubt soon become common for florists of the new and old world to exchange stock with one another.

Robert Cranford, M. Rice, of Marchentz & Co., and Eugene Weiss are becoming great bicycle riders, and forty to fifty miles a day is as nothing to them. A trio covering over forty miles was indulged in one day recently by this trio, who report having had a splendid time. Perhaps in addition to the bowling contests at the annual convention we may have to add a race or two on the wheel, as should there be "others" in the trade, and we think it likely, who are fond of this sport, they will soon want to know who is the best, and they should be given a chance to find out by all means.

This vicinity was visited by a violent thunder storm on Thursday last, accompanied by high winds, but not much damage was done, although there was considerable hail, which damaged some flower beds recently planted.

Bowling matters are now getting very interesting, and the attendance at the practice games for the next month or so will be large, and the interest intense; the big four will be sure to be on hand. K.

Pittsburg.

Trade still moves slowly in this city, with a supply of plants equal to all calls. Much bedding out has been done. In the early part of the week the weather was fine, but for the last three days it has rained continuously, and to-night (19th) the thermometer is down to 40° and it is still raining. I am afraid that the tender bedding plants will have a sore appearance when it clears away and many will have to be replaced.

Cut flowers are in fair demand and plentiful. Extra fine carnations fetch $1.50 per 100. Smilax scarce.

E. H. Beckert has opened a store on Penn avenue, East End. He was formerly with Duff Bros.

Jno. R. and A. Murdoch have been quite busy the past week with funeral work.

Next Monday will witness the opening of what promises to be the largest state conclave of Knights Templar ever held in Pennsylvania. The decorations are in the hands of Elliott & Ulam, who have been kept busy for the past week making dry work.

The parks will commence bedding the present week, and as the Grand Army will hold its encampment here, a great many appropriate badges will be made.

Worcester, Mass.

The season is so far advanced this spring that all outside stuff is very much earlier than usual, consequently there was a lack of entries in the classes that called for outside culture at the May exhibition of the Horticultural Society.

Although tulips were shown in goodly numbers there was not the brilliant display that we would have had if the date of the exhibition had been changed to a week earlier. But one stand of hyacinths was shown, which contained some good spikes but were foolishly staged without foliage.

Pansies both in pots and cut were well represented, some very fine types being shown. Denys Zirngiebel, of Needham, Mass., showed two stands of blooms which attracted considerable attention from the large size of the flowers and the peculiar marking.

Probably the baskets of cut flowers attracted the most comment; there being no restrictions some fine pieces of large proportions were shown; the display of hand bouquets was very disappointing as they were made up in very poor shape and were anything but artistic. The stands of cut flowers were very good and contained some excellent blooms, which were staged so as to bring out the different colors in a harmonious blending that was very effective.

There were but few entries in the pelargonium class and the plants exhibited were only medium in quality and not well bloomed; there was a very good attendance.

First premiums were awarded to Edward Hall for tulips, cut pansies, vase of tulips; to H. A. Jones for pansy plants, pelargoniums; to H. F. A. Lange for basket and stand of cut flowers; to W. J. Wood for bouquet.

The date of the next exhibition is June 7, and begonias, irises, clematis, fuchsias, rhododendrons, azaleas (Ghent) and cut flowers are scheduled.

Business has been very fair, the daily sales reported being but a little under those of last year. First class stuff is plentiful and regular prices prevail. There will probably be a shortage of flowers for Memorial day as a great deal of outside stuff such as valley, Narcissus poeticus, myosotis, lilac, etc., which always helped us out on Memorial day, will have done blooming. SEEDLING.

St. Paul, Minn.

The week has been one of activity in florist circles. Starting in warm and bright and the heat increasing until the mercury went up to 90° in the shade, everybody became anxious for their beds to be planted and vases filled. On Thursday however it turned suddenly cold, the wind blew a blizzard from the north, and tender plants outside suffered accordingly. Frost on Friday night nipping many gardens and unprotected plants has checked the sudden desire for bedding and vase plants to be put out.

During the week heavy downpours of rain, supplemented by hail beat everything flat before it. We learn of no damage to glass by hail in St. Paul, but have been informed that considerable damage was done in Minneapolis.

Stock about town is abundant and fine. May & Co., Hansen, Warren and Lemke, all have fine geraniums and all report good sales. Some very fine pansies are also seen, retailing at from 30 to 50 cents per dozen. Many of the small florists are now reaping their only harvest of the whole year, selling potted plants on the market, peddling them on the streets and planting them out in lawns and cemeteries.

Department stores and cigar stands are also offering plants and with so many avenues for disposing of their stock the growers will be able to sell everything.

In cut flowers, sales have been up to the average. Owing to the warm weather the fore part of the week, roses were a little off in form and color, but everything sold readily and notwithstanding the enormous number cut they all sold. The department stores are now selling them daily and this may account for there being no surplus on hand.

Some nice carnations are still seen. C. Hansen and C. I. Warren are cutting some very fine Silver Spray. This carnation, besides being a very free bloomer

and good keeper, never bursts its calyx, has a moderately stiff stem and is a great favorite here. We think it the finest white ever grown here and it will be planted largely the coming season by our florists, as will Daybreak and Portia.

Some carnations are already planted out and with a good long season in which to grow should make excellent plants for the benches next fall. Sweet peas and gladioli are also coming on nicely outside, in fact all vegetation in this section is fully three weeks ahead of the average, and Dame Nature seems to be doing her best to assist the poor florists after a long period of depression in business.

A word about selling flowers at bargain prices when stock is plentiful. This we know has been practiced and quite successfully by one of the brethren in Minneapolis. But we are under the impression that if this rule be adopted at all it should be only after due deliberation. In no line of trade have prices dropped more than in the florist line the past five years. This has been due solely to competition, and prices now are as low as the stock can be sold at profitably. In advertising bargain days and in selling stock at cut prices, it should be impressed on the minds of the buyers that the prices are made solely on account of the immense stock and the perishable nature of it. After all, hadn't we in the large cities, better leave cut prices to the street fakirs and department stores. They always imply inferior goods. Customers never approach such sales without a feeling of doubt as to their being genuine. One thing might be done to advantage. That is two grades of flowers, roses especially, might be made. All the large, firm, long-stemmed buds in one lot, the short, weak and puny in another.

E. F. Lemke's new houses are now well under way, he having torn down part of the old range to make room for them. When completed his range of houses will be new throughout and one of the finest in the city. Friend Lemke knows how to grow good stock and a complete range of new and modern houses will add greatly to his producing facilities. His trade is one of the oldest in the city as well as one of the best. FELIX.

St. Louis.

Stock has been very abundant during the week, and of exceptionally poor quality owing to the extreme warm weather. The cold snap that arrived here on the 18th had a chilling effect upon everything, cut flowers falling away until there was scarcely enough to go around. Peonies have made their appearance in quantity and are slow sale. Bedding out has progressed rapidly in all the parks, and the beds that scarcely two weeks ago were gay with bulbous stuff, have all been prepared for their summer display. Quite a number of new beds have been made in Forest Park and the display this season will be fully 50% greater than that shown last year.

G. R. Fisher has opened a retail store in St. Louis. R. F. T.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head

SITUATION WANTED—As assistant gardener and florist, 6 years' experience in all branches; good references. E. ADEY, Flatbush Station, Brooklyn

SITUATION WANTED—A-1 floral artist, designer and maker up, over 20 years' experience; best reference. Address S S, care Am Florist, Chicago.

SITUATION WANTED—By young woman to learn general greenhouse work; Wisconsin or neighboring states preferred. Address [illegible]
MISS MIRIAM JEWETT, Sparta, Wis.

SITUATION WANTED—By a young man, age 25, as general greenhouse assistant; 4 years' experience. Thoroughly reliable and sober. Address
FRANK, care American Florist, Chicago.

SITUATION WANTED—By first-class florist and gardener, well up in all branches, as foreman; German; single, best reference; please state wages. Address A T M, care American Florist.

SITUATION WANTED—By single German, age 27, as greenhouse assistant on private or commercial place; 3 years' experience. Good references. St. Louis preferred. B E, care American Florist.

SITUATION WANTED—By a second man, commercial or private place. Well experienced also in landscape gardening. Wages moderate. Best references. F H H, 155 Harrison Ave., Boston, Mass.

SITUATION WANTED—By competent florist and gardener open for engagement. Please give full particulars in answer. Address
WM B K 908 Spring Garden St., Philadelphia, Pa.

SITUATION WANTED—By single man age 27; 9 years' good experience. Willing to do any work required in nursery or gentleman's place. State wages. F. HILL, West Porter St., Oswego, N. Y.

SITUATION WANTED—By a live young florist who is competent to grow roses, carnations, violets, mums, etc. for cut flowers: position as an assistant on a large commercial place preferred.
ARTHUR H. BOOL, Ithaca, N. Y.

SITUATION WANTED—By thorough practical florist and gardener; well up in all its branches; gentleman's private or commercial place. Roses a specialty. Very best references. Address
G W, box 38, Brooklyn Village, Ohio.

SITUATION WANTED—A reliable man, single, age 42, know about flower and vegetable gardening. Good milker and poultry man; wish situation with a respectable man. Address ULRICH,
care T. Wittig, Front St., Marietta, O.

SITUATION WANTED—By first-class designer, also willing to make himself useful in greenhouse if necessary; single man of 30; first-class references. Will work for moderate salary if steady place. Address C W, care American Florist.

SITUATION WANTED—By a gardener and florist; 35 years of age; life experience; 16 years in this country, as head gardener or manager; thoroughly versed in all its branches. Also in mushroom culture. Would like situation in any of the eastern states. For information or reference please address GARDENER, care Wm. J. Stewart, 67 Bromfield St., Boston, Mass.

WANTED—To purchase or rent a florist establishment in a city of 3,000 to 15,000 inhabitants; prefer central states. F. RENTSCHLER,
3861 Kosciusko St., St. Louis, Mo.

WANTED—At once, a good working foreman manager for growing roses, carnations, violets, for wholesale trade. Will pay good wages to right man. Address or call J M,
care E. H. Hunt, 68 Lake St., Chicago.

WANTED—A partner with small capital ($1000 or so) to begin business at an old and hitherto prosperous establishment in a general retail florist's and trucker's trade. For particulars address
B J, care American Florist, Chicago.

WANTED—A good all-round florist to grow roses, carnations and chrysanthemums and plants for market; must be a single man of good habits; state wages wanted, with board, lodging and washing; good steady job to the right man. Direct to
MOSES LARGE, 907 Grand River Ave., Detroit, Michigan.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man.
WILFRED A. BROTHERTON, Rochester, Mich.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about $75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—A valuable florist establishment in good location. Address
Lock Box 802, Washington, Iowa.

FOR SALE—2 large Bay Trees, round heads, 7 feet broad, 12 to 14 feet high. Shown at World's Fair.
VAUGHAN'S SEED STORE, Chicago.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250 VAUGHAN'S SEED STORE,
146 & 148 West Washington St., Chicago.

FOR RENT—A first class commercial place in suburb of Chicago, containing 15,000 square feet of glass, well stocked with best varieties of forcing roses. Address RENTER,
care Olsen & Hughes, 95 Wabash Ave., Chicago.

FOR SALE—The stock and good will of a paying florist business in a thriving Maryland town. Location exceptionally good. Rare chance for a good man with a small amount of capital. For particulars address HERARD, care American Florist.

FOR SALE.

At a bargain, the best retail florist place (1 store and greenhouses in the city and doing a good business; poor health reason for selling. For further particulars address H F HALLE, 548 W. Madison St., Chicago.

FOR SALE.

At a bargain, four greenhouses, 3 18x72 and 1 10x72; 4-roomed dwelling house and barn, situated on eight lots four blocks from electric cars. Building 3 years old. Greenhouses with the short slope to the south; hot water heating. For particulars address
PH. M. KEIPPER, Williamsburg P. O. Milwaukee, Wis.

DISSOLUTION NOTICE

Notice is hereby given that the co-partnership heretofore existing between Arthur Newell and Joseph N. Kidd under the firm name and style of Newell & Kidd and located respectively at Kansas City, Missouri, and Saint Joseph, Missouri, is by mutual consent this day dissolved. Mr. Arthur Newell will continue in the business as a florist in his individual capacity at Kansas City, Missouri, and Mr. Joseph N. Kidd will be located in the same line at Saint Joseph, Missouri.
Kansas City, Missouri, April 30, 1894.

ROSES.

Including Everblooming, Hybrid Perpetual and Hardy Climbing, all our selection, but standard sorts, $15.00 per 1000; 2000 in one order for $25.00.

GERANIUMS.

Double, Single, Scented and Ivy, at $15.00 per 1000, all our selection. We have one of the finest assortments of the Bruant type to be found in this country, a due proportion of these will be included in each order.

200,000 Miscellaneous Plants.

Embracing Begonias, Chrysanthemums, Coleus, Hibiscus, Sanseveria, Jasmines, etc., $15.00 per 1000, all our selection.

Write for prices on any special sorts that you may want. Catalogues mailed on application.

ADDRESS **C. A. REESER,**
SPRINGFIELD, OHIO.

Surplus Stock 50,000 Roses

We still have above number in prime condition and want to dispose of same at once for cash. It will pay every florist to plant out one or two thousand of these Roses, the cut flowers will more than pay the cost.

For $20 we will Express you 1000 Roses in following sorts—quality and safe arrival guaranteed:

Ct. de Labarthe, Bride, Mermet, Perle, Schwartz, Devoniensis, Therese Levet, Niveus, Golden Gate, Papa Gontier, Dijon, White, Pink and Red La France, Meteor, Mrs Degraw, W. A. Richardson, Pradel, Christine de Noue, F. Krueger, Cels, Queens Scarlet. Outside of these have 50 more sorts; leave selection to us and we can furnish at same figures. Send your lists to be priced

Address **NANZ & NEUNER, Louisville, Ky.**

ROSES AND CHRYSANTHEMUMS.

Brides, Mermets, La France, Niphetos, Lamarque, Duchess de Brabant, Chas. Rovolli, and others, not in excess of any one kind, $3.00 per 100.

Cullingfordii, Ivory, Jessica, Mrs. A. Hardy, Rohallion, V. H. Hallock W. H. Lincoln, Mrs. J. G. Whilldin, Mermaid, V. Morel, H. Balsley, Mrs. J. Jones, Mrs. Robt. Craig, Col. W. R. Smith, Louis Boehmer, Geo. W. Childs, Wabnu, Mrs. Senator Hearst, Wm. Falconer, W. A. Manda, $5.00 per 100 for 4-inch; $2.50 for 2½-inch, if not in excess of any one kind. Cash with the order.

MRS. J. P. BEAN & CO.,
MT. PLEASANT, IOWA.

ULRICH BRUNNER.

Extra strong plants, 2½-inch pots, $6.00 per 100; $50.00 per 1000.

JOSEPH HEACOCK,
Wyncote, Pa.

ROSES.

Mermets, Cusins and Watteville, $3.50 per 100. Bridesmaids, Brides, Hoste, Gontier, Meteor and La France, $4.00 per 100.

Strong American Beauties, $6.00 per 100; $50.00 per 1000. Well rooted Beauty cuttings, $3.00 per 100. ☞Special prices on quantity. Let me price your lists. Cash with order.

ROBERT F. TESSON.
West Forest Park, St. Louis, Mo.

200,000 ROSES 200,000

Nice stock from 2½-inch pots.

	Per 1000	Per 100
PERLE	$25.00	$2.80
SUNSET	25.00	2.80
BRIDE	22 50	2.50
MERMET	22 50	2.50
GONTIER	22.50	2 50
HOSTE	22.50	2.50
MARECHAL NIEL	25 00	2.80
LA FRANCE	24 00	2 75
WHITE LA FRANCE	24.00	2 75
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METEOR	22 50	2.50
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And all standard varieties in **Hybrids, Teas, Hybrid Teas, Climbers, Polyanthas, etc, etc.** Strictly our own selection, $20.00 per 1000; $2.25 per 100. Same from 4-inch pots, $6.00 per 100.

Send in your lists for prices.

TERMS CASH WITH ORDER.

CUT SMILAX, 10 cents per String.

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Dayton, Ohio.

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The best **Tea Rose** of the importation of '93. In color it is on the style of Catherine Mermet but deeper and the bud more beautiful, of extra large size, strong grower and perfectly free from mildew—a superb rose.

PRICE:

5 inch pots	$ 5 00 per doz.
4-inch pots	20.00 per 100.
3-inch pots	18.00 per 100.
2½-in. pots	15.00 per 100.

☞Cash with the order.

JOHN COOK,
318 N. Charles Street, BALTIMORE, MD.

ROSE PLANTS.

6,000 AM. BEAUTIES, 4-inch pots, $90.00
2,000 BRIDES, 3½-inch pots, 45.00
1,000 PERLES, 3½-inch pots, 45.00
1,000 MERMETS, 3½-inch pots, 45.00

Cool grown, for our own use.

All very choice. Have never seen our Beauties equaled. Would be cheap at $125.00. Will pay for themselves before others bloom, and always lead.

BRANT & NOE, Forest Glen, Ill.
or *L. M. NOE, MADISON, N. J.*

Rose Plants.

K. A. Victoria, 2½-inch	$5.00 per 100
Meteor, 2½-inch.	4.00 per 100
Bride, 2½-inch.	3.50 per 100
Bridesmaid, 2½-inch, $5, 3-inch,	8.00 per 100

Strong, thrifty plants.

BROWN & CANFIELD, Springfield, Ill.

AMERICAN BEAUTIES.

One thousand extra strong 2 1-2 inch pot plants, at $6.00 per 100.

GEORGE A. HEINL,
337 Summit Street, TOLEDO, O.

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FINE ROSE PLANTS.

I have for sale the following extra fine rose plants:

Meteors, - - 2½ and 3-inch pots
K. A. Victoria, - 2½ and 3-inch pots
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Baroness Rothschild, - 3-inch pots

JOHN BURTON, Chestnut Hill P. O., Philadelphia, Pa.

SURPLUS ROSE STOCK.

We have the following surplus stock of Roses in 2 and 2½-inch pots that we wish to dispose of as we need the room.

2,000 BRIDES	@	$ 3.00	1,000 METEORS	@	$ 3.00
1,000 MERMETS	@	3.00	500 BRIDESMAIDS, 3-in. pots	@	8.00
2,000 ALBANY	@	3.00	1,000 " 2-in. pots	@	5.00
2,000 LA FRANCE	@	3.00	1,000 KAISERIN, 2-inch pots	@	3.00
2,000 PERLES	@	3.00			

BASSETT & WASHBURN, Hinsdale, Ill.

YOUNG ROSES.

Am. Beauties, in 2 and 3-inch pots,	$5 00 and	$6 00
Testout, " " "	3 00 and	4 00
Meteors, " " "	3 00 and	4 00
Brides, " " "	3 00 and	4 00
La France, " " "	3 00 and	4 00

We will quote you special price on Beauties in lots of 500 or more.

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ROSES, all the very best both new and old.

CHRYSANTHEMUMS, the cream of all the long list now offered, in extra fine plants now ready for immediate delivery.

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Brides, Bridesmaids, Perles, Meteors, Hostes, From 2, 3 and 4-in. pots. **ROSES** Cusins, Beauties, Niphetos, Testouts, La France, Mermets,

Address for quotations
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Sole Agents for U. S. for **Chas. Macintosh & Co., England,** Inventors of Vulcanized India Rubber, Extra strong greenhouse hose to withstand high pressure. ¾-in., 3-ply, 15c. per foot in 60 feet lengths.

ROSES. ROSES.

Brides, 2½-inch	$3.50	per 100
Mermets, "	"	"
Perles, "	"	"
Sunsets, "	"	"
La France, "	"	"
Albany, "	"	"
Niphetos, "	"	"
Wootton, "	4.00	"
3½-inch of above varieties	$6.00	per 100
Ageratum May Flower (best blue), 2½-inch pots	$2.00	per 100

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	Per 1000
American Beauties, from 2½-inch pots	$50 00
3-inch pots	70 00
Mermets, from 3-inch pots	50 00
Brides, from 3-inch pots	50 00
Perles, from 3-inch pots	50 00
Testouts, from 3-inch pots	60 00

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FOR SALE.

Choice lot of young rose plants out of 2½ and 4-inch pots. Mermets, Brides, La France, Perles and **Bridesmaids.** Apply

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Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remembe it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

BOSTON, June 6-7. Rhododendron show Mass. Hort. Society. Robt. Manning Sec'y, Horticultural Hall, Boston.

BOSTON, June 20-21. Rose and strawberry exhibition Mass. Hort. Society.

BOSTON, Sept. 5-6. Annual exhibition of plants and flowers Mass. Hort. Society.

NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex MacLellan, Sec'y, Ruggles Ave.

BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y. Horticultural Hall.

PITTSFIELD, Mass., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y. 103 Howard St., Pittsfield.

ST. LOUIS, Mo., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.

INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.

PHILADELPHIA, PA., Nov. 6-11. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

WORCESTER, Mass., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.

CHICAGO, Nov. ——. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.

TORONTO, ONT., Nov. ——. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.

MONTREAL, Nov. ——. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.

PROVIDENCE, R. I., Nov. ——. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.

SPRINGFIELD, Mass., Nov. ——. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 John St.

DENVER, Colo., Nov. ——. Chrysanthemum show Denver Florists' Club. H. H. Given, Sec'y., cor. Lincoln and Alameda Sts.

MILWAUKEE, Wis., Nov. ——. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 319 Grand Ave.

Catalogues Received.

Chas. D. Ball, Holmesburg, Philadelphia, palms, ferns and decorative plants; Knepper & Van'T Hof, Boskoop, Holland, plants; Koster & Co., Boskoop, Holland, plants and nursery stock; F. H. Horsford, Charlotte, Vt., hardy ornamental plants; J. C. Rennison, Sioux City, Ia., plants and cut flowers.

WHENEVER you want anything pertaining to the trade, and do not find it offered in our advertising columns, write to us and we will take pleasure in assisting you to find what you want.

NOTICE.

Chicago Flower Exchange.

At a special meeting of the Stockholders of the Chicago Cut Flower Exchange, held at No. 45 Lake Street, Saturday morning, April 28th, it was resolved to discontinue the business. All persons having claims against the Chicago Cut Flower Exchange are requested to present same at once, and those indebted to said Exchange are requested to make payment without delay to

GEO. KLEHM, Sec'y,
59 Wabash Avenue. CHICAGO.

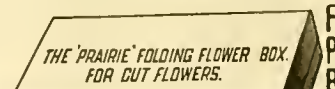
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Give us a trial order.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
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SPHAGNUM MOSS IN ANY QUANTITY.
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Mention American Florist.

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The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to

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Wholesale Markets.

Cut Flowers.

NEW YORK, May 21.

Roses, Perle, Cusin, Watteville	.50@ 2.00
" Meteor, Mermet, Bride	1.00@ 3.00
" Bridesmaid, La France	1.00@ 4.00
" Testout, Kaiserin	1.00@ 5.00
" Beauty, Hybrids, Jacqs	2.00@15.00
Carnations	50@ 1.00
Harrisii	1.00@ 3 00
Valley	1.00@ 2.00
Sweet peas	.25@ .50
Mignonette	1.00@ 3.00
Marguerites	.25@ .50
Cattleyas	25.00@35.00
Smilax	15.00@20.00
Asparagus	50.00
Adiantum	1.00

BOSTON, May 21.

Roses, Niphetos, Gontier	1.00
" Perle, Sunset	1.00@ 2.00
" Bride, Mermet	1.00@ 6.00
" Jacqa	8.00@16.00
" Brunner	3.00@16.00
Carnations	.25@ 1.50
Harrisii	6.00@ 8.00
Lily of the valley, Mignonette	1.00@ 2 00
Sweet peas	.50@ 1.00
Marguerites	.12@ .25
Myosotis	.50
Stocks, astilbe	1.00
Adiantum	1.00
Smilax	12.00@15.00
Asparagus	50.00

PHILADELPHIA, May 21.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watterille, Hoste	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 5.00
" Kaiserin, Bridesmaid, Testout	5.00@ 8.00
" Belle, Beauty	10.00@25.00
" Jacqs	10.00@15.00
Carnations, fancy	2.00@ 3.00
" good ordinary	.75@ 1.25
Valley	3.00@ 4.00
Yellow daisies	1.00@ 1 50
Mignonette	1.00@ 1.50
Asparagus	50.00@75.00
Harrisii lilies	6.00@ 8.00
Sweet peas	.50@ 1.00
Cornflower	.75@ 1.00
Pyrethrum	1.50@ 2.00
Cattleyas	40.00
Orchids	15.00@40.00
Smilax	15.00@20.00

CHICAGO, May 22.

Roses, Meteor, La France	3.00
" Mermet, Bride, Perle	2.00
" Wootton, Duchess	2.00
" Testout	5.00@ 6.00
" Beauty	18.00@25.00
" good ordinary $15.00 per 1000	
Carnations	.75@ 1.50
" fancies	2.50
Valley, outdoor	1.00
Longiflorum	5.00@ 8.0
Sweet peas	1.00@ 1.50
Smilax	15.00
Asparagus	50.00

CINCINNATI, May 21.

Roses, Beauty	10.00@25 00
" Mermet, Bride	3.00@ 4.00
" La France	5.00
" Perle	2 00@ 3.00
Carnations	1.00@ 3.00
" short	.75
Callas, Harrisii	6.00
Sweet peas	1.00@ 1 25
Valley	2.00@ 3.00
Smilax	15.00
Adiantum	1.00
Asparagus	50.00

BUFFALO, May 21.

Roses, Beauties	10.00@25.00
" Mermet, Bride,	4.00@ 6.00
" Meteor	2.00@ 5.00
" Goutier, Perle Hoste	3.00@ 5.00
" Cusin	3.00@ 4.00
Callas, Harrisii	6.00@ 8.00
Carnations, long	1.00@ 1.50
" Daybreak and Wm. Scott	1.50@ 2.00
Valley, outdoor	.50@ 1.00
Sweet peas	.50@ 75
Mignonette	1.00@ 2.00
Smilax	15.00@20.00
Adiantum	1.50
Asparagus	50.00

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CUT FLOWERS

and Florists' Supplies.

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American Beauty,
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Meteor,
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DESIRABLE STOCK FOR

Weddings,
School Graduations
and Commencements.

The product of the most extensive and successful growers for the New York market.

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AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, at Toronto, Ont.

W. H. MAULE is making an extended business trip in Europe.

THE HERRICK SEED CO., Rochester, N. Y., has been incorporated with a capital stock of $10,000.

SECRETARY DON is busy with the programme for the Toronto meeting of the Seed Trade Association, June 12. Prospects are excellent for an interesting occasion.

THE GENERAL IMPRESSION in the trade is that only those firms having a good local business have held their own this season and that those depending on the mail trade only have suffered most from the dull times.

A NEW horticultural establishment will soon make a strong bid for general business; Mr. J. T. Lovett, of Little Silver, N. J., has, it is rumored, associated with himself that well known specialist Mr. T. H. Spaulding, and the new firm will cover all lines in seed, bulbs, plants and nursery stock.

Sweet Peas.

Sweet peas sell well as choice flowers in winter and early spring and have been forced during the past few years in increasing quantity each season. They are among the easiest flowers to force and no particular knack is required in order to succeed with them. They should be sown early in September in rich soil where they are to remain. The better the soil the better the peas will be. A cool temperature is necessary if the best results would be attained. With a temperature not exceeding 45° at night they will keep stocky and firm. They want a full exposure to the sun and an abundance of air during the day when possible. In spring they will require a great deal of water. Up to date Blanche Ferry has proved the best grower and the best seller. Next to this in value come the pure white varieties. Other colors have so far met with but a limited demand.

DO YOU WANT a list of the cemeteries of the country that use trees, shrubs and plants largely in the ornamentation of their grounds and that are apt to be large buyers of these and other horticultural supplies? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

DO YOU WANT a list of firms in the trade that issue catalogues, with key showing proportion of space given each branch of the trade in same? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

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PACIFIC COAST TREE SEEDS
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ONION SEED, PEAS, BEANS, ETC.
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Largest Growers of
HYACINTHS, TULIPS, NARCISSUS,
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We are now prepared to quote lowest possible prices for next July, August and September delivery.
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True Stock. Lowest Prices. Best Quality.
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Established 1878. SAN FRANCISCO, CAL.

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Complete Stock of
ASTER SEEDS
At Reasonable Prices
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During the whole season from Christmas up to Easter.

There are thousands of people who at Easter time want to purchase a plant, but their limited means won't allow them to purchase an Azalea or even a dollar Lily. They want some little plant for 25 cents, and this should not be lost sight of. A Dutch Hyacinth or 4 to 5 Tulips or Daffodils in a 4-inch pot fills the bill.

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LISSE. near Haarlem, **HOLLAND,**

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And all other bulbs for forcing and outdoor, in extra fine quality, at very low rates.

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ADVANCE CONTRACTS. We can make most favorable prices on all kinds of **FORCING BULBS** for summer and fall delivery. Our reputation for high grade stock is well established. Please send us your list to figure on.

WE ARE CLOSING OUT NOW: Tuberoses, Dwarf Pearl, good bulbs, at $7.50 per 1000; 85 cents per 100. Tall Double Italian at the same price.

GLADIOLI.

Pink shades	$ 1.45 per 100	Isaac Buchanan	$ 2.80 per 100
Light colors	1.50 per 100	John Bull	3.25 per 100
Red shades	.75 per 100	Eugene Scribe	3.25 per 100
Snow white	12.00 per 100	Brenchleyensis	.90 per 100

W. W. BARNARD & CO., 10 N. CLARK ST., CHICAGO.

BULBS. BULBS.

Including Lil. lancifolium and Harrisii, Narcissus Von Sion, etc.
Further AZALEA INDICA, the best varieties.

☞Now is the time to order these articles. Ask for prices, which are very moderate.

L. C. BOBBINK, Representing the Horticultural Company, Boskoop, Holland, Meyer's Hotel, Hoboken, N. J.

SEEDS! PLANTS! BULBS!

Everything appertaining to the **Farm** and **Garden** of the best and choicest quality. **PRICES RIGHT.**
Catalogue on application.
WEEBER & DON.
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THE DIRECTORY FOR 1894 IS NOW READY.

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CYCLAMEN SEEDS,

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LILIES OF THE VALLEY,

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FLOWER SEEDS for Fall delivery.

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All at Import Prices.

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Please make us offer of all kinds of Seeds and Bulbs, we will sell it for you.

Patents Recently Granted.

Lawn sprinkler, John Dickens, New Brunswick, N. J.; Mole trap, M. E. Parham, Burr Oak, Mich.; Grape vine fastener, G. E. Ryckman and Major Tucker, Brocton, N. Y.; Pruning implement, Jos. L. Joyce, South Egremont, Mass.; Pruning implement, T. E. B. Mason, Shenandoah, Iowa; Seeding machine, G. W. Crossley, Humansville, Mo.; Lawn-mower, M. C. Henley, Richmond, Ind.; Pin for attaching flowers to dresses, E. W. Stifel, Wheeling, W. Va.; Bearing for shafts of Lawn-mowers, E. G. Passmore, Haverford, Pa.; Mode of and appliance for plashing hedges, M. Neil, Dayton, O.; Portable and adjustable support for hose-nozzles, Wesley A. Cain, Medicine Lodge, Kans.; Lawn-mower, Henry Deck, Philadelphia, Pa.; Flower-bracket for burial-caskets, B. F. Gleason, Brockport, N. Y.; Transplanting machine, A. W. Stevens, Auburn, N. Y.; Water-sprinkler, H. B. Everest, Riverside, Cal.; Fruit-peeling table, F. M. Anderson, Keokuk, Ia.; Vine-stripper, M. Maples, Hartwick, N. Y.; Fruit-gatherer, J. K. Woodward, Riverside, Cal.; Evaporating apparatus, T. J. Raynor, London, Eng.; Slicing-machine, A. Iske, Lancaster, Pa.; Fruit-stoner, Jos. Boeri, New York; Fruit-clipper, Thos. K. Godbey, Waldo, Fla.; Fruit-picker, C. A. Wright, San Jacinto, Cal.; Vegetable-cutter, J. Roslosuik, New York; Vegetable slicer or grater, H. O. Barlow, Duluth, Minn.; Fruit-peeling knife, N. B. Hale, San Bernardino, Cal.; Process of preserving vegetables, G. Dupont-Dennis, Nantes, France; Fruit-picker, W. H. Haw, Field's Landing, Cal.; Fruit-jar fastener, N. H. Long, Muncie, Ind.; Fruit cutting and pitting machine, J. F. Rehm, Chicago; Berry crate, P. A. Wimbrow, Whaleysville, Md.; Powder distributor, C. H. Leggett, New York; Fruit dryer, A. Blatchley, San Francisco.

Base Ball.

The employes of Hitchings & Co. are going to decide a game of base ball on Decoration Day, near their works at Arlington Ave., Jersey City. The N. Y. boiler shop will compete with the foundry men of the Jersey City branch. This should be an interesting game as there are some expert players among them. After the game there will be a 100 yards dash between Pat Burns and John Davie. Burns has a record of 1-08. ROBERT HOOD,
Capt. N. Y. Team.

Queer Place for a Key.

A sign in the window of a vacant store in a western city reads: "To rent; key in florist next door."

Do you WANT a complete alphabetical list of carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

Do you WANT Mr. Scott's seasonable hints for the year in book form, so that you can refer readily to his suggestions for any week in the year? You will find them in this form in our trade directory and reference book for 1894. Price $2.00.

Do you WANT a complete alphabetical list of chrysanthemums in commerce in America, with class, and brief, accurate description of each? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

ORCHIDS at AUCTION

To be sold absolutely without reserve by

WILLIAM ELLIOTT & SONS, Auctioneers,

at 54 & 56 Dey Street, NEW YORK CITY,

Friday, June 8th, 1894, at 11 o'clock a. m.

FROM

PITCHER & MANDA, UNITED STATES NURSERIES, Short Hills, N. J.

Comprising a large trade and amateur collection of the best cut flower as well as rare and choice varieties. All in magnificent condition and many in bloom.

Write for sale catalogue.

PITCHER & MANDA, Short Hills, N. J.

30,000 VERBENAS. THE CHOICEST VARIETIES. PERFECTLY HEALTHY.

In bud and bloom, $2 50 per 100; $20 00 per 1000.

40,000 ROSES. OUR CHOICE SELECTED STOCK. READY FOR IMMEDIATE PLANTING.

Grown in 3-inch and 4-inch pots. Send for prices.

J. L. DILLON, Bloomsburg, Pa.

THE AMERICAN FLORIST CO.'S

DIRECTORY

— OF —

FLORISTS,
NURSERYMEN
AND SEEDSMEN

— OF THE —

UNITED STATES AND CANADA,

— AND —

REFERENCE BOOK,

FOR 1894,

IS NOW READY....

Price $2.00.

DWARF CALLA.

Something that every florist who sells potted plants should have, as this variety of Calla never grows large, and therefore, for window or house culture has no equal. And again, in cut flower work its size makes it a flower that a cut flower dealer cannot well do without. I have several thousand of these Callas in 3, 4, 5 and 6 inch pots which I offer for sale. Correspondence as to price etc. solicited

LEWIS ULLRICH, Wholesale Grower of Cut Flowers and Smilax, TIFFIN, OHIO

Do you WANT detailed information about the organization and workings of the various national trade organizations? You will find what you want in our trade directory and reference book for 1894. Price $2 00.

American Beauties.

One thousand extra strong 2½-inch pot plants, @ 6.00 per 100.

GEORGE A. HEINL,
337 Summit Street, Toledo, O.

"MUST SELL"

to make room. Young roses, strong, 2½-inch Brides, Mermets, La France, Albany, Perles, Wootlons, at 3c.: $25 00 per 1000. Smilax plants, ready to plant, 1c. Cash with order.

SOUTH SIDE FLORAL CO., Springfield, Ill.

Carnations.

Last call for **Annie Pixley**; can you afford to go without this beautiful new pink? I do not think you can when you can get 25 well rooted cuttings for $2.50 cash with the order.

Smilax.

Transplanted plants, an honest sample of which will be mailed you on receipt 10 cts. The price is 75 cts. per 100, or $6.00 per 1000, cash with the order.

ALBERT M. HERR, L. B. 496, **Lancaster, Pa.**

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MAMMOTH STRAIN VERBENAS.

Rooted Cuttings or Plants.

New French Cannas; Chrys. Geo. S. Conover; Geranium Silver Jewel; Anemone Whirlwind; Pink Her Majesty; Fuchsia Trailing Queen; and many other fine Novelties.

Write for Illustrated Catalogue.

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THE JACQUEMINOT CARNATION

is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. **NO MORE SAMPLES**—we cannot spare the time. Send for circular. Per dozen, $2.00; per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.

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New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from $1 order).

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Engraver for Florists,
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PLANTS.

	Per 100
Fuchsias, best varieties, nice, 2½-inch pots	$2.00
" " " " 3-inch pots	3.00
Geraniums, Bronze, nice plants	2.50
" Mme. Salleroi, nice plants	2.00
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Alternanthera aurea nana, stocky plants	1.50
" P. major, stocky plants	2.00

Address **N. S. GRIFFITH,**
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COLEUS.

Strong plants, 2½-inch pots, at 2 cents.

GOLDEN BEDDER, FIRE CREST,
GLORY OF AUTUMN, SUNBEAM,
FIREBRAND, YEDDO.

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For Fall Delivery.

Special prices at wholesale, on application. Splendid stock and assortment.

F. A BALLER, Bloomington, Ill.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

Without Doubt We have a Carnation of strong Constitution in **"HELEN KELLER"**

Mr. J. T. Anthony, of Chicago, says:
"I like Helen; she is a good grower."

David Bearn, Bala, Pa., declares that "it roots quicker than any other variety that is put in the sand at the same time."

PRICE FOR WELL ROOTED CUTTINGS:

$3.00 per dozen; $12.00 per 100; $25.00 per 250; $90.00 per 1000. 500 at 1000 rate.

ORDERS MAY BE SENT EITHER TO

EDWIN LONSDALE, *CHESTNUT HILL, PHILA.* or **JOHN N. MAY,** *SUMMIT, N. J.*

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ROOTED CUTTINGS NOW READY.

Wm. Scott, Edna Craig, Daybreak, Thos. Cartledge, Buttercup, McGowan, and many of the standard kinds. Orders filled for the New varieties,
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SEND FOR OUR PRICE LIST OF

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Prices Greatly Reduced.
Largest Stock in the United States.

ESSEX HEIGHTS FLORAL CO.,
BELLEVILLE, N. J.

ROOTED CUTTINGS OF
CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chester Co., PA.
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FRENCH CANNAS.

Several thousand of the following French Cannas, pot grown, in different size pots, for sale at low figures: Alphonse Bouvier, T. Stomayer, Duchess de Mortemarte, Paul Marquant, Horace de Choiseul, President Carnot, Miss Sarah Hill, Explorateur Crampbel, Henry A. Dreer, Egandale, Paul Brunat, Nellie Bowden, Trocadero, General Garvis, Francois Crozy, Madame Crozy, Childsii, and Captain P. de Suzzoni.

Correspondence as to price, sizes, etc., solicited by **LEWIS ULLRICH**, Wholesale Grower of Cut Flowers and Smilax. **TIFFIN, OHIO.**

Verbenas

SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
General collection, named, 2¼-inch pots	2.50	22.00
Geraniums, double and single, 3½-in. pots	8.00	

Send for price list of Carnations, Chrysanthemums and other florist stock.

WOOD BROTHERS,
Fishkill, N. Y.

ROOTED CUTTINGS
CHRYSANTHEMUMS

Write for list and prices. Prices to suit the times.

STRONG SMILAX, from 2½-inch pots, $3.00 per 100; $25.00 per 1000.

PANSIES, from cold frame, $15.00 per 1000.

Address **J. G. BURROW, Fishkill, N. Y.**
Mention American Florist.

COLEUS.

	Per 100
Strong, 2-inch, in good variety	$2.00
VINCA major var.	2.00
Heliotrope, 2-inch, strong	2.50
Abutilon Eclipse	3.50
Lophospermum	2.50
Begonia Vernon, strong 2-inch	3.00

THOS. A. McBETH, Springfield, Ohio.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

NEW CARNATIONS

Ready to ship at once from flats and pots.

2000 Uncle John	$10 00 per 100;	$75.00 per 1000
2500 The Stuart	10.00 per 100;	75.00 per 1000
700 Diaz Albertini	6.00 per 100.	
2000 Wm. Scott	5 00 per 100;	40 00 per 1000

200 MAJOR BONNAFFON CHRYSANTHEMUMS. $5.00 per dozen; $35.00 per 100.

FRED. DORNER & SON,
LAFAYETTE, IND.

WM. SCOTT CARNATION!!!

Rooted Cuttings, $5.00 per 100. Strong Plants, $7.00 per 100.

Also a fine lot of other varieties. Send for prices.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Mention American Florist.

Hardy Water Lilies.

		Per Doz.
NYMPHÆA Odorata, large rhizomes		$1.00
"	Gigantea, "	1 00
"	Minor, "	1.00
"	Rosea, "	2 00
"	Rosacea, "	1 00
"	Tuberosa, "	1.00

GEORGE FARRANT, Salem, N. C.

VIOLETS.

Marie Louise and Swanley White.

Perfectly healthy; very strongly rooted; soil and sand, $8 00 per 1000.

MELROSE SEED & FLORAL CO.,
32 S. Third Street, HARRISBURG, PA.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

A Losing Game.

ED. AM. FLORIST: Up to a year or two ago this used to be a very good flower town. The prices were good, roses sold at from $1.50 to $2 per dozen, hardly ever at any time of the year were they less than $1 per dozen, and the same could be said of the plant trade, but now the prices, of cut flowers especially, are about one-third of what they used to be. I will give you the reason for this, just to show what a damage to the trade one man can be. There were, up to two years ago, four greenhouse concerns here, now there are five. This last concern is the one that has been the detriment to the trade in this city. He has established a downtown store, and advertises roses for twenty-five cents per dozen, American Beauties at that. He could sell just as many at $1.50 or $2. He has also cut the price on floral designs in a like proportion. Of course he is playing a losing game, but while he is doing so he is also doing a great damage to the trade.

The above comes to us signed by all but one of the florists in a live little city in a central state. Can any of our readers suggest a good way to meet the sort of competition described?

MR. J. C. RENNISON, of Sioux City, Iowa, has issued a very attractive catalogue covering all the divisions of a general business that is worthy of special note. In addition to the lists of plants, which are adorned by handsome and accurate illustrations, he gives also approximate retail prices on loose cut flowers and floral arrangements. In this latter department he includes handsome engravings of bride's bouquets, a dinner table decoration, table center piece and a daintily arranged basket. The whole effect is excellent and the circulation of such a generally attractive pamphlet should surely bring business.

IN THE May 15th issue of *Gardening*, Chicago, appear excellent illustrations of Magnolia conspicua, and Xanthoceras sorbifolia. Of the latter valuable shrub there are engravings of a specimen in bloom, a spray of flowers, and a cluster of ripe fruit. *Gardening* easily maintains its position as the most valuable American horticultural publication for amateurs.

DANIEL B. LONG, the Buffalo wholesaler, gets out some very attractive printed matter. In connection with a recent price list he reprints the telegraphic code adopted by the S. A. F. some 7 or 8 years ago. This reminds us that the code has been permitted to drop out of sight a little of late. As it is a money-saver to everyone ordering flowers by wire it would surely pay the wholesaler to keep the code in circulation. It pays to make it easy and inexpensive for customers to order.

BUILDING.—Readers who contemplate building additional greenhouses, or remodelling old ones, this summer, will confer a favor by reporting their intentions to us. We are anxious to have as full a record as possible.

TRY DREER'S GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER, Philadelphia, Pa.

20,000
ARAUCARIAS
ARAUCARIA EXCELSA, 6 to 8-inch plants, $35.00 PER 100; $6.00 PER DOZ.
ARAUCARIA IMBRICATA, 3 to 4 in. high, $8.00 PER 100; $1.50 PER DOZ.
The above delivered by Mail or Express at prices quoted.

New Crop Phœnix Canariensis, $2.50 per 1000 Seeds
" Washingtonia filifera .75 per lb.
" Chamærops excelsa .50 per lb.
" Grevillea robusta 5.00 per lb. 50c oz.

COX SEED AND PLANT CO.
411, 413 & 415 Sansome Street,
SAN FRANCISCO, CAL.

Siebrecht & Wadley,
ROSE HILL NURSERIES,
NEW ROCHELLE, N. Y.
Palms,
ORCHIDS,
Roses,
and New Plants.
FRESH DRACAENA CANES NOW READY.
Mention American Florist.

ORCHIDS OUR SPECIALTY.
The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.
SANDER, St. Albans, England.
Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich St., New York City.

JUST RECEIVED Fresh Seeds
Cocos Weddelliana.....at $10.00 per 1000
Latania Borbonica.....at $4.50 per 1000
Order at once.
W. A. MANDA,
The Universal Horticultural Establishment,
SOUTH ORANGE, N. J.

LATANIAS.
For Sale Cheap, 100 very choice Latania borbonica in 10 and 12 inch pots with 8, 10 and 12 leaves, at from $6 to $10 each.
H. F. HALLE,
548 W. Madison Street, CHICAGO.

20,000 Bouvardias,
two varieties, in 2½-inch pots, at $3.00 per 100; $25.00 per 1000.
UHLMANN & HAISCH,
MEMPHIS, TENN.

American Beauties.
One thousand extra strong 2 1-2 inch pot plants, at $6.00 per 100.
GEORGE A. HEINL,
337 Summit Street, TOLEDO, O.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

50,000
Dwarf French
CANNAS.
We offer the above quantity in strong, well established plants from 3 and 4-inch pots. This stock must not be confounded with dormant pieces or freshly divided plants out of benches.
We list here only the principal varieties of which we have a large supply. For a general list refer to our Spring Trade List which describes over seventy-five varieties, including all the desirable novelties of the season, including the grand New German variety, Konigin Charlotte:

	Per 100
Madame Crozy	$10.00
Alphonse Bouvier	10.00
Paul Marquant	10.00
Capt. P. de Suzzoni	15.00
Florence Vaughan	25.00
Charles Henderson	25.00
Paul Bruant	20.00
Admiral Gervais	15.00
Comtesse de L'Estoile	15.00
Chas. Dippe	15.00
Cronstadt	15.00
Denil de St. Grevy	15.00
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Gustav Senneholz (true) distinct	15.00
Maurice Mussy	15.00
Martin Cahuzac	15.00
Marquise Arthur de L'Aigle	10.00
Nardy Pere	15.00
Professor Gerard	15.00
Secretary Stewart	15.00
Stadtgartner Senneholz	15.00
Antoine Crozy	8.00
Admiral Courbet	8.00
Antoine Chantin	8.00
Baronne de Sandrans	10.00
Baronne de Renowardy	8.00
Comte Horace de Choiseuil	10.00
Duchess de Montenard	12.00
E. Chevreul	12.00
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Edward Michel	12.00
Francois Maire	12.00
Geoffroy St. Hilaire	8.00
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Miss Sarah Hill	15.00
Mr. Cleveland	15.00
Mlle. Liabaud	12.00
Nelly Bowden	8.00
Princess Lusignani	12.00
Perfection	15.00
Souvenir de Jeanne Charreton	8.00
Statuaire Fulconis	8.00
Trocadero	8.00
Ventura	8.00
Viticeulteur Gaillard	8.00
Kaiser Wilhelm	8.00

We will furnish one each of the above varieties, 46 plants for $5.50.
Among Crozy's New Cannas of this season Paul Sigrist is undoubtedly the most distinct and striking novelty. We are the only American house offering this variety to the trade this season. In general habit similar to Mme. Crozy, but of a bright crimson color nearly as rich as Alphonse Bouvier with a very broad golden yellow border. Stock limited, $2.50 each.
HENRY A. DREER,
PHILADELPHIA, PA.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

SMILAX, nice plants in 2¼-inch pots, $2.00 per 100; $15.00 per 1000.
Transplanted Seedlings, $1 per 100; $8 per 1000.
A few hundred Roses—Meteor, Perle and Hoste, 3-inch, ready for a shift $6.00 per 100.
JOSEPH E. BONSALL, Wholesale Florist, Salem, O.

A Few Gems

YOU OUGHT TO HAVE.

FUCHSIA LITTLE BEAUTY.—A Gem of the first water for florists and market gardeners; will produce triple the amount of flowers than any other sort, and a very early bloomer, single blue corolla; sells at first sight. Price $1.00 per 12; $7.00 per 100.

PETUNIA PINK BEAUTY, the best selling plant for any florist, color most exquisite rose, finely fringed and filled; grow a big house full of it and it will net you a quicker net profit than any other plant—$1.00 per 12; $7.00 per 100.

MARGUERITE CARNATION, finest strain for summer bloom; will give you flowers for 5 months outdoors in greatest abundance; $3.00 per 100. $25.00 per 1000.

CHRYSANTHEMUM THE QUEEN, the white Chrysanthemum for the million as pot plant or cut flowers; largest flowers without too much care; $5.00 per 100; $45.00 per 1000.

OUR NEW ROSE AMERICAN PERFECTION.—This sport will produce twice the flowers than Mermet or Bridesmaid on strong erect stems, and flowers will last a week in perfect coudition, a vivid rose; also the finest bedder among Teas. Try a hundred; you will not repent it. Only $6.00 per 100, $50.00 per 1000, from 2-inch pots. Send a list of your wants. Address

NANZ & NEUNER, Louisville, Ky.

PLANTS.

	Per 100
Alternantheras, *P.* major, Aurea nana, Tricolor (Rosea nana), Versicolor	2.50
Plumbago, Capensis and Alba	4.00
" Lady Larpent's	4 00
Perennial Phlox, fine assorted	$6.00 and 4.00
Achillea "The Pearl"	4.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't	$3.00 and 4.00
Abutilons, assorted	4.00
Echeveria Extensa globosa, 3 to 6 loches across, per dozen, $1.00.	
Mexican Primrose	3.00
Lady Washington Geranium	6.00
Achyranthus, assorted	3.00
Coleus, assorted	$2.00 and 3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Antherlcum picturatum	per dozen, 75c.
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00
Silver-Leaf Geraniums, 3 varieties (no Mme. Salleroi)	4.00
Oxalis, Ortgiesi	4.00
Dahlias, named, our selection	5.00
French Cannas, named, our selection, dry roots	5.00
French Cannas, unnamed	3.00
" " potted	10.00
Fancy Leaf Caladium, fine mixed	6.00
" " " named	8.00

Trade list on application.

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.
Meotion Americaa Florist.

PANSIES,

THE JENNINGS STRAIN.

Plants in bud and bloom $1.50 and $2.00 per 100, $15.00 per 1000; medium sized plants ot mixed, white or yellow, $5.00 per 1000. Extra 60c hundred by mail.

New crop Pansy Seed ready June 25th, better than ever. Cash with order.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock Box 254. SOUTHPORT, CONN.

BEDDING PLANTS.

Coleus, Alternanthera and Geraniums, best varieties, such as Verschaffeltii, Paronychlodes major and Gen'l Grant, and many others.

TRITOMA UVARIA, in 2, 3, 4, 5, 6-inch pots, part of each, $1.00 per 100.

Our "HARD TIMES" $3 and $5 cash Collection of PALMS are taking immensely. We give $4.00 worth for $3.00, and $8.00 worth for $5.00 cash with the order.

WILLIAMS & SONS CO., Batavia, Ill.,
Manufacturers of BATAVIA LABELS.

Plants at One-Third Value.

CAPE JASMINE, 2½-inch pots	$3.00 per 100
" " 4-inch pots	8.00 per 100
" " 5-inch pots	10.00 per 100

The above can be sent by freight.

FANCY-LEAVED CALADIUMS, 2½-inch pot plants	$4.00 per 100
Named	5.00 per 100

Address **F. J. ULBRICHT,**
P. O. Box 655. ANNISTON, ALA.

BEGONIA REX.

Assorted varieties, 2-inch pots	$5.00 per 100
Lord Palmerston, 3-inch pots	5.00 per 100

Extra strong plants.

LeROY T. BONSALL, Salem, Ohio.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

SMILAX.

Strong plants, last season's sowing, will begin to run at once. From 3-inch pots 75 cts. per dozen; $5.00 per 100; $45.00 per 1000.

CYPERUS ALTERNIFOLIUS.

3 1-2 inch pots, 75 cts. per dozen; $6.00 per 100.

LATANIA BORBONICA.

6-inch pots, strong, $9.00 per dozen.

NATHAN SMITH & SON,
ADRIAN, MICH.

ROOTED CUTTINGS

COLEUS, 10 kinds by mail	60c per 100
" 12 kinds by express	$4.00 per 1000
ALTERNANTHERA P. Major and Aurea Nana, by mail	50c per 100

CASH WITH ORDER.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

Prices Lower Than Ever.

Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to $5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

For general Japanese stock apply to

F. Gonzalez & Co.,
303 to 312 Wayne St., SAN FRANCISCO, CAL.

PALMS.

150,000 of all the leading varieties.

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50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.

HEALTHY ROOTED CUTTINGS
Carnations AND Chrysanthemums.

STANDARD VARIETIES.
MARIE LOUISE VIOLET RUNNERS.
SMILAX, 2½-inch pots.
Satisfaction and prompt shipment guaranteed.

SAMUEL J. BUNTING,
Elmwood Ave. & 58th St., PHILA., PA.

The Directory

For 1894

IS NOW READY.

Price $2.00.

AMERICAN FLORIST CO.,
CHICAGO.

PALMS—Latania, Corypha, Kentia, Cocos, all sizes from seedlings to big show plants.
AZALEAS—Best forcing varieties.
SWEET BAYS (*Laurus nobilis*)—standards and pyramids, finely shaped.
ARAUCARIA—excelsa, compacta, glauca, in all sizes; fine plants.
TUBEROUS BEGONIAS—In best varieties, large bulbs. Stock 100,000.
GLOXINIAS—Best French varieties, in separate colors.
ROSES—Low grafted and standards.
Lily of the Valley, extra strong German pips.

Prices very low on large quantities.

Fr. R. RICHTER, 126 E. 125th St., New York,
Importer & Sole Agent for Ed. Van Coppenolle, Alb Rigouts, and other Belgian and German growers.

RUBBERS.

Tree grown, three to eight branches, very fine stock, $12.00 to $25.00 per dozen.

PALMS, leading varieties at bottom prices.

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Tuberous Begonias.

GRIFFIN'S STRAIN.
Medal awarded World's Fair.

We are headquarters for the above, the finest strain in the world. Send for illustrated descriptive catalogue with copyright engravings. It tells you all about them.

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Special and Hardy Water Lilies of all colors.

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Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc., etc. Nymphæa Laydekeri rosea (awarded a Medal at World's Fair); most charming of all the HARDY LILIES; $2 50 each.
Other Columbian Novelties see catalogue.

WM. TRICKER & CO., Clifton, N. J.

PRIMROSE SEED

New Seed Now Ready.

Price per packet containing 50 seed	20 cents.
6 packets containing 50 seed	each $1.00
14 packets containing 50 seed	each $2.00
Packet, 400 seeds, 15 sorts	$1.00

Special rate in large quantity. Circulars telling how to grow primroses, free.

HENRY S. RUPP & SONS, Shiremanstown, Pa.

COLEUS.

20,000 COLEUS, VERSCHAFFELTII and GOLDEN BEDDER (true); 10,000 COLEUS, assorted, in 50 varieties, fine plants, pot grown, ready now, $20.00 per 1000. Cash with order.

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ALTERNANTHERAS.

Red and Yellow, good size, $2.50 per 100.

McCREA & COLE, Battle Creek, Mich.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

News Notes.

MONONGAHELA, PA.—I. Shelby Crall is building two new rose houses 18x135.

BATAVIA, ILL.—Mr. S. A. Wolcott, of the Bellevue Place Co., and Mary L. Emerson were married May 16.

PORT HURON, MICH.—Mr. M. Ullenbruch reports a loss of 8,000 square feet of glass and $3,000 damage to plants, vegetables and glass on Lapeer avenue greenhouses by the storm of May 17. On city greenhouses loss of $250.

KALAMAZOO, MICH.—The storm did no serious damage here. Some of the florists lost a few lights of glass, but nothing to worry about. Mr. Joseph Dunkley has been confined to his bed for the last ten weeks with pneumonia. He is still so weak that he cannot stand alone, but is improving.

SALEM, MASS.—The beautiful memorial chapel and conservatory at Greenlawn Cemetery which was presented to the city by Mr. Walter Scott Dickson in memory of his wife, was dedicated on Saturday, May 19. The conservatory, which is 50x35 with an extreme height of 28 feet, was built by Thos. W. Weathered's Sons. The frame work is of iron, and benches of slate.

NEVADA, MO.—The premium list for the third annual chrysanthemum fair, to be held Nov. 14 to 17 under the auspices of the Epworth League, has been issued. Copies may be had on application to C. W. Talbot, the florist. The League has secured special rates from the railroads for the week of the exhibition and will spare no effort to draw visitors from the surrounding country. The event will be very liberally advertised.

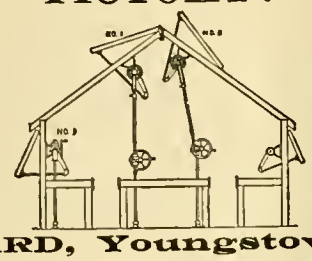
DETROIT, MICH.—The usual spring epidemic of flower thieves is infesting this city; parks, private residences, and nursery plantations alike have had their choicest flowering shrubs hacked and torn to pieces by these vandals. But patience has ceased to be a virtue, and the park and cemetery officials recently gathered in a wagon-load of these thieves, while Stephen Taplin, whose nursery on Fort street has been stripped every year, has started a vigorous campaign, being determined to prosecute in every case. It is to be hoped that these measures will check the evil.

DECATUR, ILL.—The worst hail storm ever known in this part of the state struck here May 17. Hail stones as large as baseballs were picked up (and photographed to convince skeptics). Among the florists N. Bommersbach suffered the most damage, losing 2,600 14x20 lights of double strength. Adam Balmer lost about 1,000 12x14 lights, and the other places suffered more or less severely. The cold weather that has prevailed since has caused serious damage to tender stuff. This misfortune in connection with the hard times is enough to give any man the blues.



WHITE DOVES
FOR FLORISTS.
Largest and finest stock in the United States. Write for prices to
S. J. RUSSELL,
850 Montgomery St., Jersey City, N. J.
Mention American Florist.

VICTORY! VICTORY! VICTORY!
The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the
POPULAR STANDARD VENTILATING MACHINE
The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.
Opens Sash uniform on 100 foot houses. A new device.
Send for Catalogue and Estimates.
E. HIPPARD, Youngstown, Ohio.

What queer things we see When we have no gun!

A florist may be a very good florist, but it does not follow that he can make or paint letters fit to look at.

Do not attempt to paint inscriptions on ribbon when you can buy them all ready made and gummed, in any color, at such prices as they are offered
BY
BAYERSDORFER.
Send to him for samples and prices.
Also on fine
COMMENCEMENT BASKETS,
DECORATION DAY GOODS,
and everything Standard and Novel in
Florists' Supplies
HE IS HEADQUARTERS.
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WHOLESALE ONLY. . . .



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Florists' Letters, Etc.
Medal Awarded at the World's Fair.
These letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.
2-inch Letters, $3.00 per 100.
Postage, 15 cts. per 100. Before purchasing send for free sample and catalogue and compare with any other letter on the market.
W. C. KRICK, 1287 B'dway, Brooklyn, N. Y.
For sale by all Florists' Supply Dealers.
Mention American Florist.

Baskets and Fern Dishes for Dinners, Decorations, Receptions, School Commencements, etc. in many pleasing styles, plain and fancy; compare our Fall trade list.
Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.
Immortelles, White and all colors, $2.75 the dozen, natural yellow, $2.00; Cape flowers, best, $1.00 the lb., second size, 60c. the lb.; Wheat Sheaves, Wire Designs, Wire, Foil, Picks, Wax Paper, and all other Florists Supplies quoted in our Illustrated Trade List, mailed free.
Metal Designs in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage, Address
August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. New York.

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13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.
Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.
With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.
Our letter is handled by all the wholesalers in Boston.
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ERNST KAUFMANN & CO.,
Wholesale FLORISTS' SUPPLIES
No. 113 North 4th Street,
Send for catalogue. PHILADELPHIA, PA.

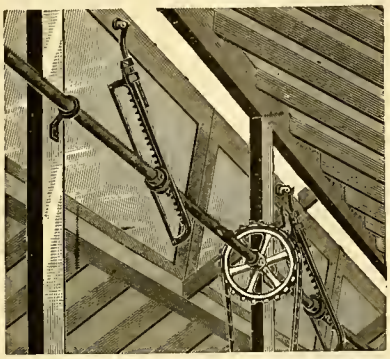
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FLORIST!

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We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

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— A —

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

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This preparation is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

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Manufacturers of

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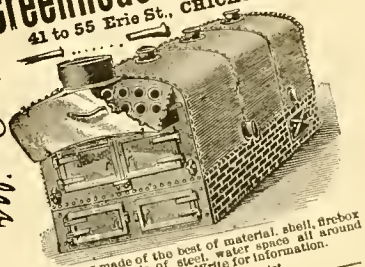
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Kroeschell Bros. Co.
IMPROVED
Greenhouse : Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox heets and heads of steel, water space all around front, sides and back. Write for information.
Mention American Florist.

Chicago

Messrs. Kroeschell Bros.
41 to 55

Chicago.

Gentlemen:—Last season we purchased three of your Improved Green House Boilers. They have done heroic service the past winter—eclipsing every claim you made. Since Feb. 25th one large boiler has been doing the work of two, heating six houses 185 ft. + 24 ft., with 9 pipes (4 inch) each; i.e. about 26000 square feet of glass, the hot water being forced through nearly two miles of 4 inch pipe. While the weather has been mild we doubt this showing can be excelled. Needless to add your boilers please

Yours Very Respectfully
Brant & Moe.

THE MALTESE CROSS BRAND
THE VERY BEST OF GARDEN & LAWN
HOSE

TRADE MARK



If your dealer does not have it send direct to the manufacturers

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Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,

And for any and every purpose for which a hose can be applied.

Sizes, ⅛-inch to 42 inches diameter.

The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,** Sole M'f'rs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York.

J. C. VAUGHAN, Agent, CHICAGO.

Is it Wise Policy?

Is it right for florists to advertise wholesale prices in papers that have a general circulation? I have noted several wholesalers who advertise the same prices in papers that go to the general public that they quote to florists in the trade press. Is it not plain that such work hurts the local florist? On several occasions people have told me that they could buy plants from a certain florist for exactly the same prices he asks those in the trade. This is certainly unfair to the retailers and it would seem that the latter should withdraw their trade entirely from such houses. I, for my part, will not deal with a man who makes no distinction in prices between those in the trade and those who are not, and if all retailers took the same stand such parties would be forced to do either a strictly wholesale or a strictly retail business, and a little experience in doing a strictly retail business at wholesale prices would probably be sufficiently unprofitable to teach them a wholesome lesson. By what process of reasoning they arrive at the conclusion that they can sell direct to my customers at wholesale prices and then sell to me also at same rates is a mystery to me. Do they imagine they can eat their cake and still have it? It would seem so. If the evil continues it will be necessary for the retailers to combine together, and unitedly withhold their trade from such houses. The trade must be protected from the serious injury they are doing it. H. STEINMETZ.

Raleigh, N. C.

"Inofohibo Cmfwypcmfwypppuu."

In describing an ovation given an opera company a New York daily perpetrates the following:

Flowers! Well, rather. It rained roses, tielbw carnations, it showered lilies, and something iu the nature of a violet cyclone struck the stage. At the end of this memorable performance the stock of every florist's stand iuofohibo cmfwypcmfwyppuu.

The cause of the extremely dull season is at last made plain to us. No wonder times are hard with the florist when his stand is "inofohibo cmfwypcmfwypppuu."





LAWN VASES.
For cash with order.
17x19 $1.00 each
With 11-inch base 1.50 "
21x22 1.50 "
With 12-inch base 2.25 "
Write for price list of Standard Flower Pots, etc. The best vase in the market for the money. The lowest prices for pots.
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ALBERT BOLKER & SONS, Agents
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GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place,
New York City.

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Mention American Florist.

THE "LOCKLAND"
Sash Bars
ARE ALWAYS SATISFACTORY.
This cut represents our Improved Clipper Bar for Butted Glass roof. **No Putty required.**
GUTTER MATERIAL, RIDGES, SASH, ETC.
The finest CLEAR CYPRESS used.
For circulars and estimates ADDRESS
LOCKLAND LUMBER CO.
Lockland, O.
Mention American Florist.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Potterv Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.
We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.
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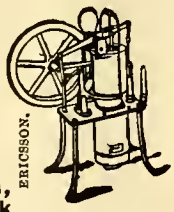
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OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS
Our new **Pottery**, new **Machinery**, the very **best Clay** in the **Country**, and our new **Patent Kilns**, all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

Crabb & Hunter,
Florists & Fuel Oil Plant Contractors,
Also Dealers in OIL BURNERS, and Agents for
Snell's Hydraulic System of using Oil for fuel purposes. *No odor*, and ½ to ⅓ cheaper than coal.
509 Madison Ave., GRAND RAPIDS, MICH.
Send for Circular

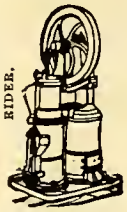
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Hamilton's Patent Sash Lifter.
The best thing of the kind ever invented for greenhouse use. Send for description and price list.
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WATER
For Your GREEN HOUSE, ROSE HOUSE, NURSERY,
Conservatory, Lawn, House, Garden, Stock or any other purpose.
Send for Illustrated Catalogue OF THE
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Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel.
Capacity 1,500 to 30,000 gallons of water a day, according to size.



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which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

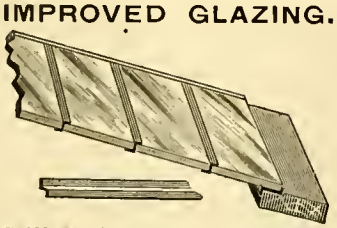
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Monon Building, CHICAGO.

THE DIRECTORY
FOR 1894
IS NOW READY.
PRICE $2.
AM. FLORIST CO.

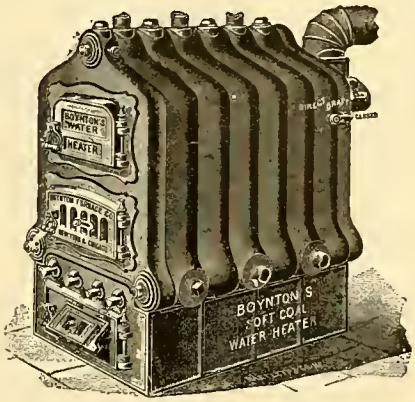
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GASSER'S PATENT ZINC JOINTS for butting glass makes greenhouses air and water tight; also prevents sliding and breakage from frost. Does not cost as much to heat a house glazed with the joints, thereby saving enough in fuel to more than pay the additional cost of glazing. The leading florists of the country are using them. Write for circulars with full particulars and price list.

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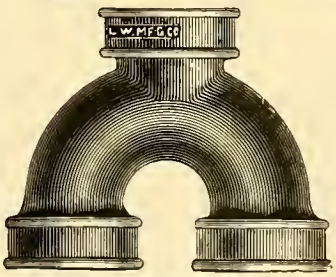
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Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST.

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

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WRITE FOR ILLUSTRATED CIRCULAR.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS,

FOR GREENHOUSES.

Write for latest prices.

Send orders for . . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
LYMAN FELHEIM, ERIE, PA.

D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN
DO IT NOW.
JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

THE CHAMPION
Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also Champion Soil Pulverizer and Sifter.

Address, **E. E. WOLF,**
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INDIANAPOLIS, IND.—There seems to have been no loss by florists here through hail or storm. No frost, though thermometer touched 34½° the morning of the 19th, with rain and a suggestion of snow.

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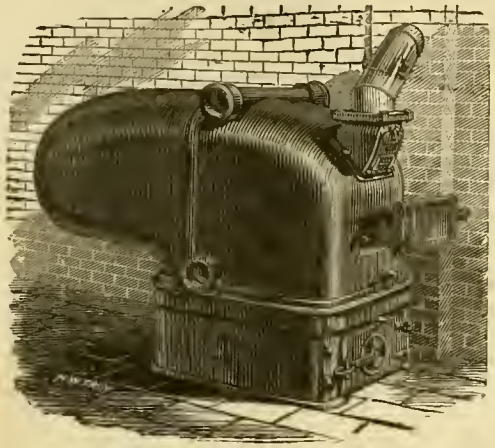
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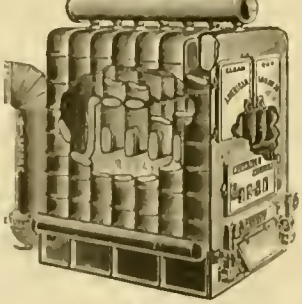


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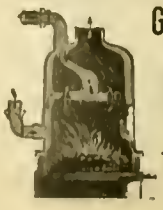
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THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. **CHICAGO AND NEW YORK, MAY 31, 1894.** **No. 313**

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J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. Tenth annual meeting at Atlantic City, N. J., August, 1894.

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LENOX, MASS.—The Lenox Horticultural Society has met with much encouragement since its organization and the membership is increasing rapidly. The headquarters of the Society will be at Sedgwick Hall. During the remodeling of this building their temporary home is at the Town Hall, where meetings are held regularly on the second and fourth Saturday of each month. Mr. Norman gave a lecture on orchids at the May 19th meeting which was very interesting. A horticultural exhibition is planned for the latter part of September.

MOBILE, ALA.—The Mobile Chrysanthemum Club has issued a premium list for its first annual chrysanthemum show to be held in this city Nov. 22 to 24 next. Copies may be had on application to the secretary, Miss Mollie Irwin, Mobile, Ala.



Seasonable Notes.

The majority of chrysanthemum growers are now making preparations and laying plans for the fall shows and trade, with visions of $50 prizes dancing before their eyes, although the older exhibitors made their first move some time ago, those intending to show plants during the winter and the growers of cut blooms during the early spring. For the last few years many writers and good authorities have told us that May was plenty early enough to propagate our plants, and so it is for commercial flowers, for the plants are much easier cared for, but our experience has been that April struck cuttings, if well grown, give a far better bloom and a flower that will stand for two or three days when placed on exhibition and look nearly as fresh as when first staged, while those grown on later struck cuttings, especially those propagated late in June, while fully as large and of nearly as good depth, will wilt and look like so many discolored rags the second day of the show.

But, of course, if the plants are not yet propagated, they must be, and it is early enough to strike cuttings that will produce a very good grade of blooms. Propagating during the latter part of May and June is very easily done, although with varying success by many. The stock plants should be well watered and cared for and never allowed to run dry, so that they will supply good succulent cuttings and not hard, wiry wood. Our plan has been in making the cuttings to remove all the lower foliage, so that when inserted in the bench the leaves will stand clear of the sand and not lay upon it to cause damp. After the cuttings are placed in the bench give them a good watering; by this we mean to syringe water on to them (using a watering pot with rose attached) until the water stands on top of the sand, and from that time on until they are rooted keep the sand well saturated. If the bench is located where the sun shines on it during the day, shade quite heavily; we have always placed hotbed shutters on the outside of the house, but at any rate don't let the full glare of the sun shine on the cuttings for the first three or four days, or they will wilt, and if that happens it will take the cuttings a week or ten days longer to root and a great many may be lost.

How is the compost heap? Is it all ready to place in the benches? If it is too rough and coarse turn it over once more and break the sods up a little. Have you put in any bone? Well, don't forget that bone is one of the best flower producing manures that we know. I see Messrs. Drover & Adams of Fareham, one of the most successful firms exhibiting in England, say a hundred pounds to a cart load, but that of course is very indefinite, for cart loads vary and few of us know anything about an English cart; but you can safely use 200 pounds to a cord, and if you want to come out near the top at the shows next fall put it in the compost and you won't rue the expense. Oh! someLody told you that a top dressing of flour of bone next summer was just as good. We fell into that lazy trap ourselves, but it wasn't "just as good," and we lost prizes thereby. It is a great deal better to work it into the soil and have the phosphoric acid all ready when the plants want it than to try and get it on at just the right time, for they know far better than you when they are ready to use it and you are very apt to put it off too late, for you want to go to the convention and are too busy. Besides, pure flour of bone is not always easily obtained and you can get a pure grade of ground bone at less expense, and if you get it well disseminated in the compost it is all ready when the plants want it.

ELIJAH A. WOOD.

West Newton, Mass.

Propagating House, Lilium Harrisii and Violets.

I have been requested to answer queries regarding the above, and although there are plenty of higher authorities I can give my personal experience, and hope that those who know better won't be slow to criticise.

From Macomb, Ill., comes the question how to build and heat a propagating house. During 25 years I have propagated plants in several different styles of houses and with nearly the same success, but the ideal house for me is 11 feet wide, running north and south; this aspect is preferable to east and west because it needs less shading. The benches can be 3 feet and 6 inches wide each and the path 2 feet 6 inches. The benches should be covered with strong roofing slates, not boards, and under them plenty of support, for slates decay with our continual application of heat and moisture. On the slates have the side boards high enough for 3 or 4 inches of sand. Under the benches should be three or four-inch hot-water pipes, and no pipes should be above the benches. In fact the heat should be confined so that none can escape into the house, but be entirely confined under the benches. On the front or path side of the benches one board the whole length

should be hinged either at top or bottom. When the temperature outside is very low you can open the hinged board and still have plenty of bottom heat. When the weather is mild little fire heat is needed but that little will keep the sand warm and the atmosphere cool with the movable board shut. You can keep the house just exactly as you want it, say the sand at 70° and the house at 50° or 55°. Almost all the plants that are grown by the florist will root and root well and make thrifty plants under such conditions. If you are a carnation grower in a large way this sort of propagating house is not necessary, and I have found by experience within a few years that an ordinary bench without any bottom heat is good enough, and cool both top and bottom. But I have rooted many thousand carnations under the first described conditions with the most perfect success. Keep the benches well away from the side walls so that there is no fear of drip. If you don't use 4-inch hot-water pipes, then 5 1¼-pipes will do as well. Hot water is much better than steam because on mild days you will drop the steam entirely.

From Columbia City, Ind., comes the query how to dispose of surplus rose leaves. If it is rose petals that are meant give them to some of your lady customers who know how to "pickle" them down. I have often had inquiries for them but very sorry that I had them.

The same subscriber wants to know "how you get 8 and 10 flowers of the Lilium Harrisii from a *small* bulb." I don't think you can. Good, sound bulbs from 7 to 9, and those from 9 to 11 inches, will easily give 8 to 10 flowers. This subject has been well written up and it will seem a monotonous repetition to repeat it. Briefly the bulbs should be potted in 6 or 7-inch pots as soon as received, and kept outside until 1st of December, or earlier if they are wanted earlier. No forcing should be given them until they are almost showing buds, but a temperature of 55° to 60° at night won't hurt, and that is high enough for any stage of their growth, but sometimes they have to get a little more than that because you want them in at a certain date. Lilies don't like fresh animal manure. A good turfy loam suits them best. If there is any plant that needs faithful and steady fumigating it is Lilium Harrisii and longiflorum. Somebody said last winter in your columns that the cause of the buds splitting was injury done by greenfly when the buds were very small, and he was perfectly right. When the buds are just forming deep down among the leaves, the greenfly, if allowed will get in his work, which no amount of care can afterwards remedy.

From the same source comes the inquiry "how to raise a few violets in a carnation house." From my experience and observation, those who are perfectly green at the business in all its branches have been the most successful violet growers in our locality. There is not the slightest reason why violets cannot be raised along with carnations. The latter will thrive and do well and be profitable if the thermometer does go down to 40° or 45° at night providing you have a good warm temperature in the daytime, and that will suit violets exactly. The carnations want the fine sunshine, all we get and more in the winter months, but the violets should have a little shade at all times, or except perhaps December and January.

WM. SCOTT.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Hardy Flowers for June.

With us at Trenton the June flowers are mostly flowering in May, at least the early June flowers are fully two weeks earlier this year. But it is exceptional. Generally the following list may be relied upon for a June display in the northern portions of the country.

SHRUBS AND SMALL TREES.

Amelanchier Asiatica,
Azalea Vaseyii,
Azalea Calendulacea and varieties,
Berberis Thunbergii, etc.,
Chionanthus virginicus, etc.,
Coronilla emerus,
Cytisus laburnum,
Cytisus nigricans,
Cladastris tinctoria,
Deutzias,
Halesia diptera,
Hypericum Andreanum,
Kalmias,
Leucothoe Catesbæi,
Loniceras,
Magnolia glauca,
Magnolia macrophylla, etc.,
Pæonia (tree),
Philadelphus in variety,
Syringa persica,
Syringa japonica, etc.,
Spiræas,
Robinias,
Rhus,
Roses,
Rhododendrons,
Tamarix Dahurica, (We have a specimen of this at Mrs. Gen. Perrine's, 25 to 30 feet high and some six inches or more in diameter of trunk),
Wistaria frutescens,
Wistaria multijuga,
Wiegelias.

HERBACEOUS PLANTS.

Aconitum napellus,
Aquilegia chrysantha,
Amarylla atamasco,
Armeria vulgaris,
Campanulas,
Centaurea calocephala,
Clematis recta,
Digitalis purpurea,
Dictamnus,
Epilobium,
Funkia Sieboldii,
Helenium grandiflorum,
Iris,
Monardas,
Œnotheras,
Papaver orientale varieties,
Phlox suffruticosa varieties,
Pyrethrums,
Ranunculus fl. pl.,
Spiræa lobata, etc.,
Silene pennsylvanica, etc.,
Saponaria ocymoides,
Trollius europæus,
Tradescantias,
Viola cornuta,
And others.

I enclose a sketch showing how a selection of these may be grouped in front of a building or any desired situation. A mass of one species is commonly most effective in a bed.

JAMES MACPHERSON.

Trenton, N. J.

A Model Retail Establishment.

The oldest and most famous cut flower store in Philadelphia, and one of the largest in the country, is that of Pennock Bros. at 1514 Chestnut street.

The business was established in 1862 by Messrs. A. L. Pennock & Brother, who were then growing and selling trees and general nursery stock. They built two small greenhouses and engaged Thomas Cartledge to manage the new department. For two years the plants grown were sold in the market house then at 16th and Market streets. In 1864 a greenhouse and office was built at 10 South 12th street, below Market, and the business there established has since grown to such an extent that the firm of Pennock Brothers is known all over the country. As the business grew, Thos. Cartledge and John Westcott, who had in the meantime become connected with the establishment, were taken in as partners and given a half interest. Later on Mr. A. L. Pennock, his brother having retired, gave his son Herbert, who had charge of the books, half of his interest, and so the firm remained until two years ago, when Mr. Westcott and Herbert Pennock retired.

In 1874 the property now occupied was purchased and improved, and in the summer of '75 the Twelfth street store was vacated and everything moved to the new establishment. The amount of business transacted in the old place was really wonderful. There were some fifteen hands employed steadily during the winter season and oftentimes more. Seven-thirty sharp, was the time to open up in the morning, but it was any time after nine p. m. up to twelve, before the place was closed. Some were kept constantly engaged making up funeral designs, there always being orders of this kind on hand, and frequently work was refused on account of lack of time and their inability to get flowers. Fancy such a state of affairs at this day! Some did nothing else all day long but make pyramid bunches, the pyramid being then the prevailing style of design for table ornament for large occasions. The bunch was made on a thin stick 12 to 15 inches long, with a camellia in the centre, backed up by bouquet green, and around this would be one row of flowers consisting of bouvardia, leaves of poinsettia flowers, arbutilons with the petals reflexed, sweet alyssum, fuchsias, carnations, nasturtiums, in fact almost anything was thought good enough for these bunches, which were then arranged in a wire pyramid and placed on top of a tall, fancy colored vase in the centre of the table, which were afterward distributed among the guests. Around the bottom of the frame, reaching nearly to the cloth, were large fern leaves of Pteris tremula or T. argyrea. Sometimes, if it was to be unusually elaborate, several gypsy baskets filled with small flowers, and, occasionally, a couple of wreaths were hung out about 6 inches from the body of the design, which by the way was always topped off with a large pyramid shaped bunch, the inevitable calla lily in the top. We have seen the florist stand off and gaze with a look of admiration at his handiwork and have heard the lady of the house exclaim, "Oh! isn't it just too lovely for anything!" What would our lady of the house say to-day if such an arrangement was placed on her table!

In speaking of the business at that time during a recent conversation, Mr. Cartledge said: "Our house back of the office or store was filled with camellias, which was then the principal flower. I don't remember that we had a single palm on the place. It must have have been well up to the seventies before we kept any palms. The first we handled were latanias and were quite expensive. We did not think of doing decorating then, it was all cut flower work, and a few bedding plants in the spring. As for Easter there was no attempt made to grow blooming plants, and the small extra trade was confined to cut flowers entirely. By and bye, as the trade grew, there came a demand for



INTERIOR VIEW OF THE STORE OF PENNOCK BROS., PHILADELPHIA, AT EASTER.

callas and for quite a while they were *the* Easter flower. Lilium candidum was also grown later on quite extensively."

"When did Lilium longiflorum become a commercial flower?"

"I think we got the first blooms from Gus Messeburg in Flatbush in '72 or '73. I remember they sold readily at $1 each. We had to import most of the roses we used at first, as there were very few grown in this city until '76, in fact it was 1880 before we could depend on the growers about here for any quantity. Now it is not a question of getting stock enough but we nearly always have to be on guard for fear of being overstocked. The custom of sending plants and cut flowers as personal gifts at Easter has grown up in the last twelve or fifteen years, the demand previous to that time being entirely for Churches and Sunday Schools. The Easter trade of the present day has increased to such an extent as to tax the most perfect system of management at this busiest of all seasons."

"How do you manage to make room for the extra stock at this time?"

"Well we have to manage the best we can. We put a wide shelf up next the walls of the greenhouse and pack the palms closely together. These make a good background for the blooming plants. Some of the hardier kinds we stow away in our capacious cellar, 20x130 feet, and it is a very valuable part of our establishment at times like these. We also arrange blooming plants in the front of the store and wherever we can find a place to set them. In ordering our Easter stock we arrange with the growers so as to have a portion come in each day. Some plants will keep nicely for a week but others, notably hydrangeas, and particularly genistas, want to be sold at once. Hydrangeas, if well grown and cared for, will last fairly well, but for an early Easter they have to be forced so hard that they are generally very soft, and of late years the flowers seem to fall very quickly. But the genista, no matter how well it is grown, will lose color and close up its flowers the second day. It is a pity too, for it is one of the most salable plants when well grown.

"I have often looked at our stock when we had every available inch of room filled up and thought of the wagon loads of plants still to come, and then of the cut flower department and the work to be done there, and wondered how we would ever be able to handle and deliver everything satisfactorily and on time, but we generally manage to get through all right. The only wonder to me is that there are not more mistakes, as we have to employ a lot of extra helpers, many of them with little or no knowledge of the business. We divide our force up, some going to the cellar to make up designs and put up orders, others to sell plants, which as fast as sold are packed in baskets, all orders being sent out in this way, and then there is no danger of getting the lots mixed up. We always pick out the advance orders a day or two ahead and set them away, and then our salesmen are directed to try to get the people who buy in the early part of the week to have their purchases sent at once and not kept until Saturday as used to be the custom.

"Whenever possible we tie all the lily flowers up with slips of tissue paper, as they are so apt to be damaged in delivering. We find of late years a large increase in the demand for cut lilies and we recommend the cut blooms in preference to plants whenever we can. They are so much easier to handle, both for the growers and ourselves. As a rule cut lilies give just as much satisfaction as they do on the plants. I should certainly recommend florists to talk cut lilies at Easter.

"We had one counter this season on which was kept a stock of flowers that people could select from and carry away. No orders were taken here, such customers being sent to another counter. We found this plan to work well and it did not take skilled help to manage it."

"Do you like your new refrigerator?"

"Yes, very much. We used to keep our flowers in the vault under the pavement but of late years the sewer and illuminating gas has managed to get in in spite of all we could do, and we had to abandon

it. This shows off the flowers to advantage and we have the stock right here at hand. It is 15 feet long, 3 feet 6 inches deep. I wish it was 4 feet. It is 7 feet high in the clear and room above this on top for more than a ton of ice. There are three compartments divided with glass partitions that you can scarcely see, yet in sliding the glass doors in one compartment the cold air from the others cannot escape. It uses about a ton of ice a week and keeps the temperature from 40° to 50° according to the frequency with which the doors are opened. I don't see how anyone can get along without something of this kind now, as people expect more than they used to, and one must keep up with the times. The electric light which we can turn off and on with this switch lights up the flowers nicely and is a great addition, and best of all we find that most all stock keeps better here than anywhere we have ever had it. Everything is put in jars or vases of water. It shows to so much better advantage and keeps just as well or better than when laid in boxes or trays."

The accompanying views of the store and show house were taken last Easter. The store is 20x60 and the greenhouse in rear, separated by glass partition, has about the same dimensions, with an additional house on top of stable in rear, about 30x20. The top of the refrigerator can be seen in the rear on the left of the picture.

Chicago Parks.

WASHINGTON PARK.

The effects of the severe storm and low temperature of the latter half of last week has been less ruinous than was at first feared. As no actual frost occurred as far as reported the damage done was caused by the high winds. At the same time the sudden check of a luxurious growth has naturally had a decidedly damaging effect on all outdoor vegetation. However a few weeks of pleasant weather will probably repair all damage so far as trees and shrubs are concerned.

After cessation of work for a week bedding is pushed forward with redoubled energy. This work had not progressed very far previous to the storm. A number of beds of geraniums and verbenas were out, but these, aside from having their bloom whipped off, appear little the worse for tough usage. The large globe formed of echevarias and oxalis, which is familiar to all visitors to the park, had been placed in position. The elevation on which it rests had the full benefit of the gale and it's a wonder the thing wasn't blown to pieces, yet not a single plant was displaced, although the echevarias on the north and east exposure have a shriveled appearance at the edges of the leaves. The vases or urns surrounding the globe were also out. These, by the way, are arranged very tastefully with the same material as that employed in the globe. From an æsthetic standpoint we may find little to admire in arrangements of this kind, but there is no doubt that it pleases the multitude, and this is a consideration that should never be lost sight of. Our public parks are supported by public taxes, and their full share of the burden is borne by the people whose tastes are not educated up to the point of appreciating the beauties of landscape architecture that appeal to the cultured few. In view of the fact that these features of park ornamentation which are often called "monstrosities" have proved a great attraction to thousands of visitors, Mr. F. Kanst, who so ably manages the affairs of the south parks, has always devoted more or less space to such arrangements, although personally opposed to the practice. But isn't it time to gradually draw away from the old line and strike into the new channel, more in harmony with advanced ideas? In our desire to please we shouldn't lose sight of the fact that the higher mission of our public parks is that of an educator. However, if it jars on our nerves to look at a gates ajar of plants we can turn away and find plenty to admire where the most fastidious taste will not be offended.

The greenhouses, hotbeds and coldframes are filled to their utmost capacity. The number of plants required for planting these spacious parks and boulevards is enormous, and to handle the vast amount of material is no small job; yet in a week or ten days we will find everything in shape.

The present conservatory is altogether inadequate for the needs of the park. Many of the palms have outgrown the room allotted to them. There isn't half room enough to properly arrange or take care of a host of valuable plants which are crowded together now for want of room. There is however a good prospect for better facilities in the near future.

JACKSON PARK.

Jackson Park is now under the management of the South Park board again and plans for its improvement are now maturing, though at present the wooded island, of World's Fair memory, is the only spot that is receiving any attention.

Our visitors last summer (and for that matter we don't exclude our local talent either) may not have been particularly impressed with the grandeur and triumph of horticulture at the Exhibition, but the little island was one of its redeeming features. It is a pity this couldn't have been created a year earlier. As seen this spring it is really a beautiful place. We are pleased to learn from Mr. Kanst that very few changes are contemplated. Most of the beds which contained exhibits are turfed over and a number of walks will be treated the same way later on.

The storms of last week did considerable damage to the borders skirting the lagoons. The high winds from the northeast drove the water from the lake into the lagoons, raising them fully 3 feet above their normal level, and many of the shrubs and plants were washed out. Owing to the location of the surrounding buildings, the northwest end caught the full fury of the storm and many of the trees are almost entirely denuded of foliage. In other parts the damage is trifling.

The Ellwanger and Barry collection of ornamental trees and shrubs is nearly intact and with the exception of box, which was winter killed, is in much finer shape than last year. Fully one-half of the large beds containing Hydrangea p. grandiflora are still here and promise a grand show this summer. The borders are gay with a variety of hardy perennials, notably aquilegias, iris, gems, pyrethrums, phloxes in variety, and many other early forms.

The rose garden, for the present at least, will remain practically as originally laid out. Mr. Luetschg, who had charge of the island last year, is back again at his old post under the present management. The rose garden has always been Mr. Luetschg's particular pet. Some of our last year's visitors may remember the sulphurous state of the atmosphere surrounding the same rose garden when the water supply ran short at the height of the dry season. However, his temper will not be tried again this year, as ample provisions will be made to avoid a recurrence of last year's experience.

The roses, by the way, are looking very fine this spring. Most all of the different sorts came through the winter in good shape. Even such tender teas as Safrano, Bon Silene, Perle des Jardins, Gloire de Dijon and others. One bed of Mrs. John Laing and another of Marshall P. Wilder came through in fine shape without the least covering. Among others we note the following that look the most promising: Jules Margottin, Gen. Jacqueminot, Paul Neyron, La Reine, Baroness Rothschild, Merveille de Lyon, etc. Of all the varieties grown here Hermosa is the only sort which is almost completely killed out.

The border of hardy perennials which surrounds the rose beds looks better than last year. But very little is in bloom yet.

Several beds of Azalea mollis are in fine bloom. Those azaleas have wintered remarkably well and appear very thrifty. Rhododendrons too (having been carried through the winter in cold sheds) look quite well and are covered with buds promising a fine show. Some of the poorest specimens, thought not worth the saving, were left out all winter without any protection whatever, and all are alive and growing.

In the Japanese garden at the north end we also noticed some Azalea Indica which were left in the ground all winter. These plants, with few exceptions, are alive and making growth.

Fern Notes.

GYMNOGRAMME.

It seems unfortunate that most of the members of this genus are not such as may be classed among trade ferns, their fronds being too soft to bear much exposure to the dry atmosphere of a dwelling. This characteristic naturally rules them out from among the available stock for filling fern pans, though some of the hardest fronds can be used cut for certain purposes with good effect, and will probably last fully as long as some other material that is used for this purpose.

The majority of the gymnogrammes are not difficult to raise from spores, and are also quite rapid growers, but require shading at all times except possibly during a month or two in the depth of winter, when such strong growing kinds as G. decomposita and G. tartarea will suffer little from full exposure.

The golden and silver ferns, so-called, are among the most distinct and beautiful varieties in cultivation, and make admirable exhibition specimens, among the finest for this purpose being G. chrysophylla Laucheana, this producing large and finely divided fronds of graceful outline, the crown of the plant and also the under sides of the fronds being thickly covered with bright yellow farinose powder, and this becoming scattered over the upper sides of the leaves also gives the entire plant a golden appearance.

Another lovely variety in the golden section is G. Parsonsii, this being a crested form of G. chrysophylla, also very much covered with the farinose powder, while the tasseled tips of the fronds weigh them down in a very graceful manner.

Perhaps the commonest species among the golden ferns is G. decomposita, the fronds of which attain a length of two to three feet, the footstalks being nearly upright and the leaves finely cut and arching in habit.

G. decomposita is not quite so golden as the preceding varieties, but still is dis-



THE EASTER DISPLAY IN THE SHOW HOUSE IN REAR OF THE STORE OF PENNOCK BROS., PHILADELPHIA.

tinctly covered with the powder on the under side of the fronds, and being a rapid grower it soon develops into a handsome specimen.

Decidedly the finest of the silver leaved section of gymnogramme is G. Peruviana argyrophylla, this being of compact growth and very graceful habit, the fronds finely divided and completely dusted over with white powder like frosted silver. This variety is best suited in a warm house, and with enough shading on the glass at all times to break the full force of the sun, and in common with all the members of this genus is not partial to watering overhead, the variety in question being especially averse to such treatment.

G. tartarea is a more hardy variety of the silver leaved type, and produces strong fronds of nearly upright habit, dark green on the upper side and covered with white powder beneath. G. tartarea may be compared in habit and hardiness with G. decomposita, and like that species may be well grown in a temperature of 55° to 60°.

Another remarkably beautiful crested variety is G. Wettenhalliana, though this is also a rather tender one, requiring warm house treatment in order to grow freely, and also strongly objects to watering over the foliage. In coloring the fronds of G. Wettenhalliana seem to be intermediate between the golden and silver leaved kinds, the farinose powder on its fronds being of a sulphur color, and is especially noticeable on the under side of the fronds, the latter being long and graceful and the tips much cut and tasseled.

G. sulphurea is another moderately strong growing species, and of compact habit, the under side of the fronds being powdered with light yellow of the shade indicated by the specific name. G. sulphurea is also most happy in a warm house, and though long introduced is by no means common in the average fern collection.

G. schizophylla is one of the most distinct members of the family, and when well grown is also one of the most beautiful. As indicated by the name, the fronds of this species are finely cut, in fact so much so as to have quite a feathery appearance, and are displayed to advantage when the plant is grown in a basket. Another peculiarity of G. schizophylla is found in the fronds being proliferous, young plants being frequently procured from the tips, but the farinose powder to which reference has so frequently been made in describing other species and varieties is not so plentiful in this instance, and is seldom noticed except in the crown of this plant.

G. triangularis is probably the most dwarf and hardiest of this genus, being a native of Washington and Vancouver, and throws up small green fronds of triangular outline, the under side being freely powdered with yellow, the whole plant being seldom more than six to eight inches in height. W. H. TAPLIN.

A Judgment on Judges.

The little tilt between Mr. Ewing and Mr. Stewart in recent issues of the AMERICAN FLORIST becomes interesting as these two doughty champions of opposing ideas warm up. The gallant Canadian did not quite like the sly thrust of the blue-blooded Yankee when the latter hinted that perhaps it was because of living under a monarchy that made a man think the one-judge system the best. Our monarchist was evidently too much in earnest to notice the twinkle of the eye which accompanied this little dig. But, for all that it was said in fun, this remark has considerable aptness in illustrating the different standpoints of the different individuals. The American idea is that the average judgment of the whole people is the only true guide, and the Republic is built up on that foundation. To an American the three-judge system at once appeals as the correct thing, and anything that savors of one man power is abhorrent. A Canadian brought up under different conditions would hold just the opposite opinion. He says give me one good man and I would rather trust his judgment than any half dozen "duffers" you can bring along. So there you are.

"There is one person that is always more right than anybody, and that is everybody"—so says Tallyrand. Very good. But how about this: "The minority is always right," says Ibsen. Two chunks of wisdom which may serve the occasion—one for Boston, one for Canada, and yet if the minority is right how soon it will become a majority! And there you are again. Touch the right button and presto your minority is now a majority.

Let me tell a little story. This little story was imparted to me one summer evening 4 or 5 years ago by no less a person than Mr. David Bearn, the gentleman who has been at the head of the committee of arrangements of the Pennsylvania Horticultural society for the past ten years, and who knows more about the ins and outs and intricacies of judging than he always cares to tell. We were walking up to see the boys bowling at the Mannerchor and Davy being in a reminiscent mood got to talking of the first big show held in Philadelphia in the past decade. It was a great show, nothing like it had been attempted before either in Philadelphia, Boston or New York. Well, at such an aggregation the judges must be equal to the occasion of course. For the plants and other important exhibits they seemed the greatest experts then known in horticulture. They happened to be Peter Henderson, John N. May and John Thorpe. They got along in their work swimmingly until they came upon some entries for 6 foliage plants. How many entries is immaterial. They finally got down to two. Henderson and May said this one. Thorpe said no, the other, and then they trotted back to the other, and looked over them again. This was repeated so often that Davy began to think, "goodness, this Thorpe must be a wonder when he can make these two great lights defer in this way." Thorpe had not been much heard of in these parts at that time. To the outsider the Henderson and May lot certainly looked the best, but Thorpe proved his claim that they were not the best by finally turning them out of the pots and showing to his colleagues beyond a doubt that the plants had no roots and were not in health. And so ended the controversy, which was an eye-opener to at least one on-looker, and he has held a high opinion of John Thorpe's intimate knowledge of plants ever since. If on that occasion there had only been Peter Henderson present according to the Canadian idea, the wrong plants would certainly have got the prize. Of course this is only an instance, but it illustrates the point. Doubtless there are dozens of other cases that could be cited. The three-judge system certainly works well in Philadelphia, and we are all republican or democratic enough to believe that the system is founded on liberty and independence, equality and justice. G. C. WATSON.

Philadelphia, May 13, 1894.

We trust that further discussion will be strictly confined to the question of whether the one-judge or three-judge plan is the best, taking everything into consideration. The American principle as we understand it, is to secure the greatest good to the greatest number, and our Canadian friends are in perfect harmony with that principle.

There is much to be said in favor of either system, and to our mind the advantages of each depend largely upon circumstances. Mr. Watson's story can be used as an argument in favor of the one-judge plan with equal force. If Mr. Thorpe had been selected as the one judge he wouldn't have had to argue the matter with the other two gentlemen on the committee, and if they had been egotists instead of liberal minded men, they would have over ruled the judgment mentioned. As Mr. Watson says, "there you are again."

We believe all will admit that really good judges—men without prejudices, as well as thoroughly familiar with the plants or flowers to be judged—are scarce, and if it is difficult to secure one good judge, how much more difficult it is to find three. Three equally good judges ought to be better than one alone, as points might be observed by one that were overlooked by the others. But unless three first-class men are to be had, of what benefit is it to have that number? With one good judge and two doubtful ones there is a chance of the good man being outvoted. If two of them are first-class then the third one is simply a cipher and absolutely useless. But, if the judging must be done by men of doubtful capacity then three might be best, on the principle that you are more apt to catch a fish in a large net than a small one. However, no expense should be spared in securing the services of men of known capacity. And we agree with Mr. Ewing that the judgment of one such man is worth that of half a dozen others.

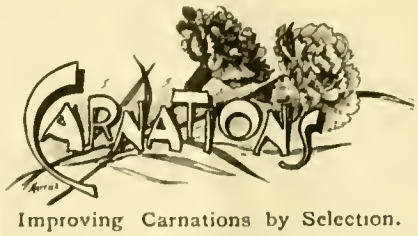
The One Judge Plan.

The Worcester County Horticultural Society has long used the "one judge system" and after 8 or 10 years experience with it the 3 or 5 judge plan has ceased to be talked about. The society has three judges of award, one for flowers, plants, etc., one for fruits, etc., and one for vegetables, etc.

The New England Agricultural Society, which has held its exhibitions in Worcester, Mass., for the last few years, has used the "one judge system" for four or five years with entire satisfaction.

I will not burden your columns with arguments. The one judge feels his responsibility and is always exceedingly careful in his work. If mistakes are made he has no colleagues upon whom he may shift the responsibility. F. A. BLAKE.

Rochdale, Mass.



Improving Carnations by Selection.

When a new carnation is introduced to the trade and this carnation has some good qualities, such as free blooming, good color and earliness, I would not condemn it on account of a few qualities that speak in its disfavor; for often they can be eradicated. For some years I have grown Mrs. Fisher, a very good carnation as far as it went. It was as white as the driven snow, a profuse bloomer, as early as any, and never a bit of rust have I seen on it during all the years I have grown it. All my neighboring florists despised it. What are you growing that thing for? they would ask generally. I told them I was growing it because I liked it, and if nobody wanted to buy it, I would grow a few more for my own amusement. I knew it had its drawbacks. It would produce its flowers in clusters, and the buds would be all near the top. The flowers were very large, so large in fact that they would most ridiculously burst the calyx and spill all the petals about. Nevertheless I planted a number in pots, and to my astonishment, when they came to flower the number of buds to the stem had greatly diminished, while those in the bench clustered the same as ever. Occasionally I would see one that would even keep the calyx closed and of course I would rob its stem at once of its cuttings. By persistent selection I have a carnation that has all the good qualities of the old Mrs. Fisher and none of the bad ones, except the stem, which is not quite as stiff as I wish it to be, but I intend to master that too. During a recent illness I had a friend come to see me. On a table were some of my favorite Mrs. Fisher and also some of Grace Wilder. Of course they attracted his attention. Looking first at the white ones he inquired: "Is that Silver Spray?" "No my friend," I replied, "that is nothing more or less than your much despised Mrs. Fisher." "Mrs. Fisher buds too much." "Don't condemn that innocent flower without trial. There is Grace Wilder, said to be a perfect carnation, now draw a flower off each, and then tell me which has the least number of buds on." He did so. Grace Wilder had three and Mrs. Fisher two, but there were quite a number of the latter that had none but the terminal flower. My friend struck sail and said he would try some more, when I would be able to go out again. Have others experimented in the same line? Let us hear of it.

Branford, Conn. CHARLES EVERDING.

Imperfect Von Sion.

We herewith present a portrait of a chap who is becoming entirely too common. His features are easily recognizable. If we could also produce the color it would be mainly green; here and there an occasional yellow petal that has managed with a hard struggle to stand out in its true color. Any one who has forced Von Sion of late years will have no difficulty in recognizing the rascal.

Is it any wonder that the grower, finding himself left with nothing to show for his good money and his months of care and attention excepting a lot of abortive useless rubbish, is inclined to give vent to his disappointment and anger in words more expressive than polite? For although he is in no manner responsible for the failure yet every one of those bulbs must be paid for, and in the present condition of the bulb forcing industry it does not take much of this waste to offset any possible profit.

As to the cause of the trouble; many experienced growers do not hesitate to assert that the defective bulbs are grown mainly in Italy, Southern France and to a lesser extent in England, and that genuine Holland grown bulbs are the only stock that can be depended upon to produce perfect blooms.

Whatever foundation there may be for this claim it is undoubtedly true that there is no varietal difference in the bulbs, but that the soil in which they are grown and their condition when harvested are at the bottom of the trouble, for Italian grown bulbs, if planted a season or two in Holland before exporting, come out all right.

It seems almost superfluous for us to caution our bulb forcers to be careful in their purchases of bulbs for the coming season and by all means to avoid buying Von Sion that are offered cheap or with-



IMPERFECT VON SION

out some assurance as to their origin, and it should be equally unnecessary for us to warn our foreign friends that there is a limit to even American patience, and that persisting in the reckless methods recently practiced they will very soon have no American market to worry about.

Narcissus Buds Blasting.

Please permit me to inquire of the readers of your valuable paper why my narcissus seem to blast or wither in the flower bud and not mature their flowers, while others growing alongside seem to do well. The above are growing outdoors. A.

The reason why narcissus come blind is considerable of a puzzle to gardeners. The matter has been pro'd and con'd in the horticultural press, especially in that of Great Britain, a good deal and many experts have had their say and aired their opinions, but the matter still remains about where it was. Narcissus poeticus seems to be the worst offender in this respect. A change of soil and location might produce good results. A rather deep and somewhat stiff soil suits the narcissus best and if somewhat shaded from the hot sun so much the better. W.

Foreign Notes.

The *Journal des Orchidees* for May contains a complete list of the species and varieties of cypripediums now in cultivation. The list covers seventeen pages, and 84 varieties of insigne alone are given.

At the sale of Mr. Geo. Hardy's orchid collection recently about $15,000 was realized for 520 lots. A superb plant of Cattleya Mossiæ Hardyana brought $825, C. Mendellii, Quorn House variety, $750, and a superb plant of Cattleya Skinneri alba, $750. The proceeds of the sale showed that fine specimen orchids are not losing ground by any means.

Philadelphia.

Such a week of wet weather has not been experienced for many months, if not years; it was rain all day, then all night, then again the next day, without any let up. It really seemed as if it never would stop. It cleared up Friday night, but rained again Saturday afternoon, so as to make a week of it. While the storm caused a great deal of inconvenience, that was almost the extent of the damage, except in a few instances. In the neighborhood of Bryn Mawr several establishments were damaged by hail, Henry G. Standen to the amount of $170, Mr. Campbell lost about $250, and James Kent at Ardmore, near by, lost from $300 to $500. There was no insurance on any of this glass. A number of private places in the vicinity also suffered to a considerable extent.

E. Metcalf of Norristown was reported in the daily press to have lost his entire establishment; this proved to be a much exaggerated report. His place was close to the Schuylkill river, which, overflowing its banks, did do him considerable damage, but only to the extent of $100. The statement, however, led his brother craftsmen to write letters of sympathy with him in his great loss, offering assistance in various ways. From these letters Mr. Metcalf found that his misfortune had touched the hearts of his business associates, and had he suffered to such an extent they were willing to help him bear his loss, and would do all in their power to get him on his feet again, all of which must have given him a greater faith in human nature.

With the trade in and about the city much inconvenience was caused by water in the stoke-holes, which made it impossible to keep the fires going. We have heard of a number of pumps purchased, which may not be needed again in a decade. Coming as it did right in the height of the bedding-out season it interfered greatly with this work, and had a very bad effect on the stock in the houses. Geranium flowers were transformed into a ball of mould, while the bottom leaves were also badly affected. Other flowers suffered in like manner, and the houses the latter part of the week looked anything but inviting. With cut flowers it was much the same, and the stock offered each morning by the growers presented a very forlorn appearance, but as it was all alike the dealer had to do the best he could with it. As business was also very bad, partly on account of the weather, and the natural decline, which seems to have set in very early this season, there was enough for all demands.

Prices are about the same as last week, but with a declining tendency. There are lots of pæonies about, and they seem to sell well at 75 cents to $1 a dozen. It's an ill wind that blows nobody good, and in the absence of sun to take the color out of Daybreak carnation it has been coming with an ideal color, which certainly adds to its selling qualities. Gardenias are now coming from the south, and bring $5 to $6 per hundred.

Messrs. Harris and Craig have had to postpone their sales in Boston and New York till next week, on account of the delay in movement of trains, owing to flooded tracks. The plants had all been packed in cars, but had to remain in the station, as it was impossible to move freight of any kind.

Messrs. Z. De Forest Ely & Co. have their window fixed up in a very attractive manner for Decoration Day. The seed men all report having had a very good counter and local business, but report the shipping and mail trade not at all up to the mark.

Mr. E. Towell, late with Edwin Lonsdale, has gone into business on his own account at Gwynedd. He is erecting two houses, which are to be devoted to carnations, mostly Grace Battles, H. Keller, and other choice varieties. He will also act as foreman for Mr. Redfield of same place. K.

Mr. John Westcott looks rosy and happy and says he likes the growing business immensely. He does a large wholesale business in bedding plants. English ivies, Ampelopsis Veitchi, and honeysuckles are three of his specialties, and he handles more of these probably than any other establishment in this neighborhood. He has also a house of palms in fine condition and another of crotons which for quality and variety would be hard to match. His new geranium is now in fine shape and is worth going a long way to see. He has not decided on a name for it yet, but thinks of calling it the "Laurel Hill." It's a beauty. The electric cars on Ridge avenue now run past Mr. Westcott's place. One can now get there quickly for one fare without changing. It is a great convenience for visitors but may tax John's patience a little by bringing too many, for all know his hospitable nature

and like to drop in on him. The latch string is always out at Laurel Hill.

The old Cursham place at Greenmount cemetery is now owned and occupied by Mr. Edward I. O'Neil, who is working energetically to get the establishment and the stock into proper shape for doing the big trade that this fine location warrants. He is ably seconded in his labors by his foreman, Mr. Robert Lockerbie, a young man well known in this city from his having been so long at Robert Craig's place. Bedding plants for spring sales is the mainstay, but some Easter stock will be grown also. One large house (150 feet) is now being planted with roses. Another one, 100 feet will be filled with carnations. The other three houses will be used for miscellaneous stock.

Mr. Harry Waterer, with Mrs. Waterer and family, leave for Europe June 2.

Mr. Chas. D. Ball keeps cheerful on the palm business outlook. He says he has done more than ever before the past year and has not felt the depression except in somewhat lower prices. He will drop lilies and other "flying" crops this coming season and devote more space to palms.

Dennison Bros. say the bedding plant business is poor up to this date (middle of May) there being fewer buyers and lower prices. A couple of weeks of good trade (which is likely) will change that tired feeling.

Mr. Edwin Lonsdale, as president of the Florists' Club, has his hands full just now with steering the crowd in the direction of the convention at Atlantic City. His bewitching smile is getting broader than ever, especially when he wants to put one upon some of his endless committees or sub-committees. He has also a grin of an even more ecstatic hue when anyone mentions "Helen Keller," and one peculiar thing about that is that everybody seems to be glad that he struck it good. Success generally excites lots of envy and other disagreeable features, but the "Duke" seems to have the happy faculty of finding "an entrance out" of all such troubles.

Mr. David Bearn is always cautious about endorsing a novelty and was never known to get enthusiastic or to give anybody a testimonial. He is now scratching his old head and wondering what the "Helen Keller man" will do next. Mr. Bearn's carnations have done much better than he expected. The outlook early in the season was anything but bright. Roses have been better than previous season, but then—there's *the prices* this year. Beauties, what few he had, did well and more space will be devoted to them next year.

John Haubert keeps jolly as ever, and has nothing to complain about. He says his Easter trade at the store he hired on Ridge avenue was away beyond his expectations.

Geo. Anderson keeps struggling and wrestling with the question—why will these fellows cut prices? And why don't the store men's customers get the benefit of a cut when a cut is made? And how in thunder do these fellows that cut manage to pay their bills? It is a good thing for the trade that there are one or two old standbys like George, who send in good stuff and stiffen the backbone of the market. Anybody can cut prices but it takes a mighty smart fellow to put them up a notch. This price question and the problem of who of the horde of aspiring applicants are to be the Philadelphia team in the bowling contest at Atlantic City, are two interesting and difficult subjects that keep George on the ruminating bench, and the latter promises to develop for him a halcyon and vociferous time before all hands are convinced that the selections are just right.

The fame of our alert and rising young genius on 12th street (H. H. Battles) has reached the confines of New York. He had an important commission there this week. If it wasn't for the rush of business here in this driving town our florists might have time to attend to the New York trade a little better. The New York public have our full sympathy under these distressing circumstances; but these little outlying villages cannot expect everything.

Mr. Geo. E. Fancourt, of Wilkesbarre, was a recent visitor in Philadelphia. He seems to be making a go of the rose growing and says he will take a trip across the water next month. That is one evidence of prosperity certainly. But we can't all have cheap coal. W.

St. Louis.

The cold snap and late frost as noted in last week's notes was more extended, and of greater intensity than appeared at that time. The severe northwest wind accompanying the cold seems to have aggravated the effects. The damage done gardeners was heavy, early tomatoes, melons and other garden crops being severely pinched, and in some cases killed outright. About the time the gardeners were becoming reconciled to the frost's visit, those in the southern part of the city were called upon to bear another visitation of providence in the shape of a hail storm. While nothing like as severe as the one visiting the same locality last season, the lateness of its appearance caused it to do as much damage, a great quantity of plants being so bruised and cut to pieces as to be worthless. Loss fell also upon the florists having stock outside in this section.

Stock has been scarce, and of very inferior quality. All rose growers seem to be affected with bad cases of mildew, and stock is unsightly as a consequence. Sweet peas have been in most demand, and have been in short supply, selling at $1.00 per 100. Trade has been rather quiet, nothing much being expected until school commencements begin.

In visiting South St. Louis a call was made at Mr. Fillmore's, and the genial Frank found as full of jokes as ever. His three-quarter span rose house that has been in carnations all winter is still looking fine and throwing good flowers, particularly of Albertini, Daybreak and McGowan. Frank finds McGowan the best white, although some Silver Spray are grown. He expects by proper attention and care to keep the plants going during the summer, and to cut good flowers almost up to the time to replant. Mr. Fillmore is noted as a lover of new varieties of plants, and the novelties are given a trial by him as soon as possible. Among the fuchsias tried in the past several years he has been most impressed with one called Little Beauty. Its chief merit lies in its dwarf growth and profusion of bloom, which sells it on sight. Trade has proved much better with him than the first part of the season promised; he estimates the falling off by the time the season closes at about 10%.

Mr. Schray, in the same vicinity, was also called upon and everything found as neat as usual. Several fine batches of Pandanus utilis, hydrangeas and fuchsias were noted, as well as one house devoted to flowering begonias, which was a beautiful display. Carnations were found in good shape. Among reds he finds Sentinel the best and will increase its planting. Mr. Schray has practised for the last few years the planting of his small carnations in the benches where they are to stand during the winter, and is so well satisfied with the results that nothing could tempt him to change to the old method of field planting and lifting. It is understood, however, that the sash are taken from the houses and the plants are virtually outside.

A fine lot of petunias were noted, both double and single, raised from home grown seed; the fertilizing was carried on under glass and the resulting crop was exceptionally good, both in perceatage of double flowers and in markings. Some roses in 4-inch pots, intended for the planting of their rose house, were in fine shape and doubtless will be heard from during the chrysanthemum show.

The hail which visited this section broke about 200 lights for Mr. Schray and about 50 for Mr. Fillmore.

The fifth series of games between the teams composing the Bowling Club, has come to an end and both the "highest individual," and the "highest average" medals go to Mr. Kuehn, who takes the former with the low score of 242, and the latter with the creditable average of 204 for the twelve games. The next best averages are Jules Benecke with 177, and Arthur Ellison with 173, for twelve games each. Good scores were made by the following members: Jules Benecke, 225; John Young, 232; Will Young, 222; C. Roper, 214, Lawson and Emil Schray, 204 each; Arthur Ellison, 201.

At the meeting held on the 26th it was decided, in view of the fact that the poorer bowlers had no show for the medals, to institute a system of handicaps which would allow so many pins to a member for each game played, and thus give him some encouragement; so handicaps were allowed of from 5 to 40 pins, according to the member's ability as ascertained from the averages in the last five series. The teams were also rearranged, and with the handicaps allowed the contests promise to be lively. R. F. T.

New York.

Decoration Day demands, a full week of cold stormy weather, and the effect of the replanting of houses now going on have made roses quite scarce, and there is no lack of customers for every rose that comes in, although prices do not run over two and three dollars per hundred for average stock. The main supply at the 34th street market now-a-days consists of outdoor stock such as snow-balls, pæonies, irises, etc., and the cheaper grades of indoor stock. There is a fair demand for all just at present. Some very fine lilacs from up North are coming in and bring almost winter figures. Carnations are getting small. They run from 75 cents to $1.25 as quoted in advance for Decoration Day.

Indications of summer stillness begin to crop out in the wholesalers' quarters. The morning's trade is quickly disposed of and with the exception of those unfortunates whose job it is to fill out the consignment slips as satisfactorily as possible, there is little left for anyone to do during the balance of the day, and one can almost hear the euchre deck rustling and the checkers jumping round in the box where they have been stored all winter, impatient to get started at their summer frolic. But before the dead season is due there ought to be a lively session in June and all are longing for an old fashioned

spell of weddings and commencement gaiety.

Herman Rolker has established himself at 218 Fulton street, where he expects to build up a business in specialties. Francis' new stemming device and barbed glazing points are his leaders now and other meritorious articles will be added later on.

The auction sales lack much of the snap of former seasons and prices are obtained with difficulty, fancy greenhouse stock suffering especially. "Postponed on account of the floods in Philadelphia" was the somewhat lamentable outcome of the promised sale of palms, etc., on May 24, from the celebrated Philadelphia growers, but the flood subsided and the great event finally came off on May 31.

Frank Traendly and Charlie Schenck have started in the wholesale flower business as Traendly & Schenck, with headquarters for the present at 910 Broadway. Charlie has been for a long time in the employ of J. K. Allen.

The florists at Yonkers are looking for protection from the itinerant flower and plant venders from New York, and have petitioned the common council to raise the license fee of dealers from out of town.

W. H. Siebrecht of Astoria and Chas. Schwake of New York sailed for France on Saturday, 26th inst. Willie had a good time saying good-bye at the Market.

Strangers in town: J. C. Vaughan, Chicago, and J. W. Elliott of Pittsburgh, Pa. Mr. Elliott has been attending to landscape work at Narragansett Pier, R. I.

Chicago.

At the last meeting of the Florist Club the matter of a meeting place for the future was well thrashed out. The trustees were finally empowered to make a selection from among the trade places who had offered quarters free. It was also decided that at the next meeting, which will be held in the new quarters, there should be a good old fashioned supper with corn-cob pipe accompaniment. It was also decided that several members of the club be invited to come prepared to speak at the supper, and it is probable that the matter of park management will receive some pretty vigorous discussion.

Supt. Pettigrew of Lincoln Park has been asked to send in his resignation, but acting upon the advice of his friends he will not resign and will force the board to go upon record as removing him if they care to go to that extreme.

Mr. Altgeld has at last done one sensible thing. He has appointed Mr. Edw. G. Uihlein one of the commissioners of the West Park Board. Mr. Uihlein is a well known citizen, and furthermore is thoroughly conversant with horticultural matters. He is one of the vice-presidents of the Horticultural Society of Chicago. We are glad to at last be able to congratulate Gov. Altgeld on one of his actions.

The sudden scarcity of stock last week led to a sharp advance in prices, affecting every line, and roses and carnations in particular. The weather remaining cold after the great change of the week previous was undoubtedly the main cause of the shortage, although partly owing, also, to the fact that a good many houses are being pulled up and replanted with young stock.

Much of the rose stock sent in now is badly mildewed and almost worthless, and for this reason a number of houses have been thrown out, which it was intended to have kept running through June if they had been in condition. The grower, however, who didn't neglect his houses and kept the fires up, is in clover. The retail boys on the other hand are not particularly elated at the state of affairs. While the wholesale price of flowers has doubled in nearly every class, business with them remains as dull as ever.

Decoration Day, which will have come and gone before these notes will go to press, is not looked forward to with any great expectation by our city dealers. The extra demand, if there be any, is mostly for the cheaper grade of flowers, with little profit to the dealer. Stock, however, of such outdoor varieties as are generally to be had at this season of the year in great profusion are either already gone out of bloom, such as lilac, tulips, narcissus, etc., or else much damaged by the storm, as snow-balls and spiræas.

Pæonies and irises are about the only outdoor flowers to be had, excepting gardenias, which are received in great quantity from the south. These flowers, ordinarily a great drug in the market, are at present, owing to scarcity in white, in quite a lively demand.

Pæonies have taken a sudden jump from 25 to 35 cents per dozen to 75 cents to $1. The quality is only fair to medium, received as yet mostly from outside points, excepting "old reds." The bulk of our home grown stock will be in in about a week.

Regular Decoration Day prices went into effect as quoted elsewhere on May 27, although the market ruled firm at nearly the same figures the latter part of last week.

The blue corn flower has made its appearance and sells readily at 50 cents a 100.

T. J. Corbrey has returned from his California trip.

Recent visitors: H. C. Neubrand, representing F. R. Pierson Co.; A. Dimmock, representing F. Sander & Co.; J. S. Taplin, representing C. H. Joosten; J. A. Evans, of Quaker City Machine Co.; Rev. W. T. Hutchins, Indian Orchard, Mass.

Toronto.

We have had "some showers" (as Old Probs put it) here lately. One shower lasted nearly a hundred hours, which was of longer duration than any which have been before recorded since Canada was a country. Needless to say that the ground is a little wet and that outdoor operations are almost at a standstill. The weather is still very unsettled and lesser showers keep putting in an appearance. One of the papers remarked that it was not often one had the chance of "four days of solid liquid enjoyment" free of cost.

I send you herewith some of the most interesting points of the lecture given by Professor Panton to our association a week or two ago. The professor has also sent me some further hints by letter which may be of service. "Fungoid pests of the carnation have been very successfully treated by spraying the plants with one-half ounce sulphide potassium in a gallon of water; spray weekly. For one form of blight, the true rust, known by plump, gray blisters upon the leaves, no specific remedy is yet found. If a plant is badly affected with this there is little hope of curing it. All diseased parts should be removed and *burned*, and in bad cases the whole plant. Healthy plants may be kept so by spraying with some of the copper salts; this prevents the germination of the spores. Some one might try a solution of copper carbonate, three ounces of copper carbonate dissolved in ammonia; it will likely take about two pints, and add 25 gallons of water. Whatever quantity is required will be based on this proportion. If too strong add more water. Violet rust is only overcome by careful handling and changing the location of the plants. As far as possible destroy affected plants. Some one might try sulphide of potassium as for carnations. Free use of salt is a remedy against the minute worms (nematodes) in the soil. These sometimes injure violets very much. Rotation of crop must be also followed. In all fungoid diseases *destroy by fire all affected material as far as possible*, for it is full of spores. Try spraying with copper salts or sulphide of potassium to prevent spore germination." Professor Panton has promised to give us a lecture on "The flower and its use" shortly.

Last Saturday the market was fairly jammed with plants in flower and out of flower, herbaceous and annual. The demand was good, but prices ruled low.

The Agricultural Department of Ontario has started a most excellent arrangement at the Agricultural College, Guelph, whereby teachers of public schools can spend their summer vacation there for merely the cost of their board and at the same time take a course of practical lectures and field notes on botanical, entomological, geological, etc. subjects, with a view to the imparting such knowledge to the school children during the term. This seems to be a splendid idea if the teacher can make the subjects simple and interesting, and it might in time have the effect of reducing the necessity of the injunctions so often seen in public parks and gardens, "Keep off the grass," "Don't walk on the flower beds," "Don't pick the flowers." "No dogs allowed," etc., etc. At present many people have an impression that these are only mottoes got up by officious superintendents to save themselves trouble and annoyance, but it only needs a little common sense instruction given to children in an interesting manner (they do so like to know the why and wherefore of everything) to make them understand that the flowers, grass and trees are for the benefit of all and not for their own individual selves to wear or wantonly destroy. Prevention is better than cure, and teachers can do more good than the police court. E.

Boston.

At the time of writing, Decoration Day preparations are at their height, and the peculiar conditions prevailing in this most remarkable season have so completely puzzled both growers and dealers that the effect is almost equivalent to a panic. Carnations have jumped to $2.50 and $3 per hundred and even at that growers are loth to let them go lest they may thus miss a further advance. Roses are in the same condition. Nothing short of $8 per hundred is obtainable. But the snowballs, double hawthorns and weigelias are in full bloom out of doors and there are large quantities of rhododendrons obtainable, and the inflated prices are in no means certain to hold. Dried flowers and metal goods in every conceivable form and design are in all the florists' windows in quantity, and their sale is likely to be largely increased by the sudden advance in cut flower prices.

At Horticultural Hall on May 26, first-class certificates of merit were awarded to F. Sander & Co. for foliage plant Strobi-

lanthes Dyerianus, to Rea Bros. for Astilbe Chinensis, a pretty species, soft pink in color, and to James Comley for Hydrangea "Benigakee," a species which he brought from Japan; the flowers are white delicately shaded with pink and the edges of the petals serrated. Mr. Comley also showed a hardy white rhododendron with enormous truss of flowers, which he has named Mrs. Cleveland. Hybrid aquilegias from H. H. Cowing, pansies from L. F. Seaver and hardy herbaceous flowers from J. W. Manning and Rea Bros. were shown in profusion and were admired by a large crowd of visitors. N. T. Kidder exhibited a collection of perfect calceolarias in 8-inch pots.

The auction sale of palms from W. K. Harris was postponed from May 26 to May 29 on account of delay in transporting the goods.

Mr. Geo. Sykes, from Hitchings & Co. is in town.

Pittsburgh.

There has been quite a demand for plants the last week, both for bedding and for decoration. Good geraniums are scarce; only fair plants fetch $1 per doz. Cut flowers for the past week have been in great demand and not plentiful. For the past week most of the retail stores have been taxed to the utmost. Saturday (26th) the leading stores had not enough flowers left for a buttonhole bouquet.

Last Monday witnessed the twin city in holiday attire for the Conclave. There have been many decorations at the Alvin theater, but this one far surpassed them all. In front of the building were the different Templar emblems. In the center of the archway there was a floral emblem of the Knights, consisting of a Maltese cross in yellow immortelles and mounted with a crown and cross in purple flowers while the legend "In hoc signo vinces" appeared on the four arms of the cross. There was a profusion of evergreen, with palms and ferns almost hiding the interior. Inside the hallway there was only room enough for two to walk abreast, the remainder of the space being taken up with banks of palms and flowering plants beautifully arranged and interspersed with colored electric lights. The art gallery was also beautifully decorated and festooned with smilax. The decoration of the archway opening from the hall to the promenade lobby was a fine piece of work in the shape of a draped curtain made of maiden hair ferns.

The Monongahela House was also beautiful. The hallway on the first floor, the stairway and the corridors were lined with plants, while the dining room took on nearly the same dress as on Grant's birthday, the occasion of the American Club Banquet.

The Central Hotel was decorated in an artistic manner, also Newell's Hotel. The Masonic Halls of Pittsburgh and Allegheny were also elaborately done. Most all of the decorations were by Messrs. Elliott & Ulam and A. M. and J. B. Murdoch. But from what I can hear all of the florists had a share, as hundreds of bouquets were presented to the ladies by the different Sir Knights.

The Victorias regia and Randi are now in bloom at Schenley Park. A. J. B.

San Francisco.

At a meeting of the State Floral Society, Thursday, May 24, Rev. W. T. Hutchins, of Massachusetts, who has been spending three or four weeks on the coast in the interests of sweet pea growers, and who has made a very thorough inspection of the various farms devoted to this industry in different parts of the state, gave the society an exceedingly interesting talk, occupying nearly two hours and supplying much careful and exact data in connection with growing, roguing and purifying the various kinds given, and splendid opportunity was afforded to the speaker to illustrate his points, from the fact that over sixty named kinds were on exhibition, grown only as California soil and climate is able to produce these magnificent flowers. Mr. Hutchins expressed his delight and surprise at the remarkable perfection in size and color attained by the sweet peas on this coast, contrasting strongly with those grown in his own home in Massachusetts.

Business is very dull in San Francisco now. The Chinamen are running all over the city and selling flowers at ruinous prices.

Robert Armstrong, for years with the growing department of the Sunset Seed Co., resigned his position lately.

Mr. Lynch, of the Menlo Park Nurseries, is reported seriously ill with rheumatism. We all hope for his speedy recovery.

W. T. Hutchins, the great authority on sweet peas, is now here inspecting the fields of our large growers, and is delighted with them.

Wm. Robertson has started in business again in the California market.

W. D. E.

ALTON, ILL.—Edw. C. Paul intends to go into business here next fall and is planning to build a range of greenhouses this summer.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By young woman to learn general greenhouse work; Wisconsin or neighboring states preferred. Address
MISS MIRIAM JEWETT, Sparta, Wis.

SITUATION WANTED—By a young man, age 25, as general greenhouse assistant; 4 years' experience. Thoroughly reliable and sober. Address
FRANK, care American Florist, Chicago.

SITUATION WANTED—By competent florist and gardener open for engagement. Please give full particulars in answer. Address
WM B K, 908 Spring Garden St., Philadelphia, Pa.

SITUATION WANTED—By single German, age 27, as greenhouse assistant on private or commercial place; 3 years' experience. Good references. St. Louis preferred. B E, care American Florist.

SITUATION WANTED—By a second man, commercial or private place. Well experienced also in landscape gardening. Wages moderate. Best references. F H H, 155 Harrison Ave., Boston, Mass.

SITUATION WANTED—A reliable man, single, age 42, know about flower and vegetable gardening. Good milker and poultry man; wish situation with a respectable man. Address ULRICH,
care T. Wittig, Front St., Marietta, O.

SITUATION WANTED—By July 1st, as working foreman on private or retail commercial place; has been head man for Mr. Coles for past 14 months; single. West preferred. Address
FLORIST, care W. W. Coles, Kokomo, Ind.

SITUATION WANTED—By experienced man as working foreman in retail commercial establishment. Well posted in roses, carnations, chrysanthemums, bulbs, palms, ferns and all the requirements for supplying a first-class store. Address, with all particulars, H. STOCKING, care Wiltshire Bros., 651 Sherbrooke St., Montreal.

SITUATION WANTED—By single Englishman; 12 months in this country; 24 years' experience in 4 leading nurseries and leading private and commercial places in England and Channel Islands. Orchids a specialty, stove and greenhouse plants, roses, carnations, violets chrysanthemums, etc.; has also had extensive experience in landscape work. Steady and sober; unquestionable references; state wages.
C. P. 28, 1242 Broadway, New York City.

WANTED TO RENT CHEAP—Greenhouse with store. Address 758 Western Ave., Chicago.

WANTED—HEATER—Small, second-hand hot water. Hitchings preferred. Address
ED. DOLE, Beatrice, Neb.

WANTED—Hot water boiler, medium size. Upright preferred. Second-hand. Address
D. C. NOBLE, Columbia City, Ind.

WANTED—Greenhouse assistant; young man, some experience, good habits. State wages with board. Commercial place. Address
GEO. S. BELDING, Middletown, N. Y.

WANTED—Working foreman who can grow first-class cut flowers and plants, for store and retail trade. Good place and liberal inducements to capable man. J. GAMMAGE & SONS, London, Ont.

WANTED—A good all-round man to grow roses, carnations, violets and general plants; knowledge of mushroom growing preferred. Apply, stating wages expected, to
S. J. WEDDEN, box 962, Belleville, Ont.

WANTED—A single man experienced in growing cut flowers and general greenhouse work; none but a sober, industrious man, one willing to work and giving good references, need apply; state amount of wages wanted. LEWIS ULLRICH, Tiffin, Ohio.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man.
WILFRED A. BROTHERTON, Rochester, Mich.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about $75. VAUGHAN'S SEED STORE,
88 State Street, Chicago.

FOR SALE—A valuable florist establishment in good location. Address
Lock Box 802, Washington, Iowa.

FOR SALE—2 large Bay Trees, round heads, 7 feet broad, 12 to 14 feet high. Shown at World's Fair.
VAUGHAN'S SEED STORE, Chicago.

TO RENT—Large window with half store front in lunch room at 271 State St. Chicago. One of the best places for a retail business in the city.

FOR SALE—$500 will buy the nicest little florist establishment in the city, first-class location; come and see for yourself.
J. A. LESNER, 349 East 33d St., Chicago.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE,
146 & 148 West Washington St., Chicago.

FOR RENT—A first-class commercial place in suburb of Chicago, containing 15,000 square feet of glass, well stocked with best varieties of forcing roses. Address RENTER,
care Olsen & Hughes, 66 Wabash Ave., Chicago.

FOR RENT—Woodbury greenhouses, consisting of 6 houses 20x75 feet, with office, packing room, potting shed, heated with steam, city water; finely located on four railroads; a good business; the only florist's business in the city; 30 minutes from Phila., 20 trains daily; a first-class opening for anyone wishing to engage in a florist business. Vacated only on account of continued sickness.
J. H. LUPTON, Woodbury, N. J.

FOR SALE—Splendid business opportunity. 5 greenhouses, three 18x75, two 12x75, stocked with roses, carnations, violets, near Portland, Oregon; electric cars pass near the property every half hour to Portland. Good dwelling house two-story 18x28, good well, chicken house, barn, stable, 5¾ acres land. Price, $3,500; terms, $1,000 cash, balance $500 a year. Address
D. C. LATTOURETTE, Queen City, Oregon;
or G C, care American Florist Chicago.

FOR SALE—At a bargain, or exchange for other property. The oldest and best known florist and truckers plant in Southern Kansas; 22 acres, early export to Colorado, Nebraska, etc. Fine cut flower and plant trade. No greenhouse near; 5000 feet glass; steam or water heat; natural gas and water works; 5 acres asparagus and pie plant; 7 room house, large barn, shop, office; live town; healthful climate. Good reasons. Address WILLIAM H. BARNES,
Box 845, Independence, Kans.

FOR SALE.

At a bargain, four greenhouses, 3 18x72 and 1 10x72; 4-rooned dwelling house and barn, situated on eight lots four blocks from electric cars. Building 3 years old. Greenhouses with the short slope to the south; hot water heating. For particulars address
PH. M. KEIPPER, Williamsburg P. O. Milwaukee, Wis.

HERRMANN'S SEED STORE
413 East 34th Street,
Near Long Island Ferry, NEW YORK.
Complete Stock of
ASTER SEEDS
At Reasonable Prices
PRICE LIST FREE ON APPLICATION.

SEEDS!
PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

200,000 ROSES 200,000

Nice stock from 2½-inch pots.

	Per 1000	Per 100
PERLE	$25.00	$2.80
SUNSET	25.00	2.80
BRIDE	22.50	2.50
MERMET	22.50	2.50
GONTIER	22.50	2.50
HOSTE	22.50	2.50
MARECHAL NIEL	25 00	2.80
LA FRANCE	24 00	2 75
WHITE LA FRANCE	24.00	2.75
ALBANY	24.00	2.75
METEOR	22.50	2.50
WATTEVILLE	22.50	2.50
SOUPERT	22 50	2.50

And all standard varieties in **Hybrids, Teas, Hybrid Teas, Climbers, Polyanthas,** etc , etc. Strictly our own selection, $20.00 per 1000; $2.25 per 100. Same from 4-inch pots, $6.00 per 100.

Send in your lists for prices.

TERMS CASH WITH ORDER.

CUT SMILAX, 10 cents per String.

THE NATIONAL PLANT CO.,
Dayton, Ohio.

ROSES.

	Per 1000
American Beauties, from 2½-inch pots	$50 00
3-inch pots	70 00
Mermets, from 3-inch pots	50 00
Brides, from 3-inch pots	50 00
Perles, from 3-inch pots	50 00
Testouts, from 3-inch pots	60 00

J. T. ANTHONY,
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MAMAN COCHET.

The best **Tea Rose** of the importation of '93. In color it is on the style of Catherine Mermet but deeper and the bud more beautiful, of extra large size, strong grower and perfectly free from mildew—a superb rose.

PRICE:	
5 inch pots	$ 5 00 per doz.
4 inch pots	20.00 per 100.
3-inch pots	18.00 per 100.
2½-in. pots	15.00 per 100.

☞Cash with the order.

JOHN COOK,
318 N. Charles Street, BALTIMORE, MD.

ROSE PLANTS.

6,000 AM. BEAUTIES, 4-inch pots,	$90.00
2,000 BRIDES, 3½-inch pots,	45.00
1,000 PERLES, 3½-inch pots,	45.00
1,000 MERMETS, 3½-inch pots,	45.00

Cool grown, for our own use.

All very choice. Have never seen our Beauties equaled. Would be cheap at $125.00. Will pay for themselves before others bloom, and always lead.

BRANT & NOE, Forest Glen, Ill.
or *L. M. NOE, MADISON, N. J.*

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FINE ROSE PLANTS.

I have for sale the following extra fine rose plants:

Meteors, - - 2½ and 3-inch pots
K. A. Victoria, - 2½ and 3-inch pots
U. Brunner, - 2½ and 3-inch pots
Mrs. J. Laing, - 2½ and 3-inch pots
Baroness Rothschild, - 3-inch pots

JOHN BURTON, Chestnut Hill P. O., Philadelphia, Pa.

YOUNG ROSES.

Am. Beauties, in 2 and 3-inch pots,	$5 00 and	$6 00
Testout, " " "	5 00 and	6 00
Meteors, " " "	3 00 and	4 00
Brides, " " "	3 00 and	4 00
La France, " " "	3 00 and	4 00

We will quote you special price on Beauties in lots of 500 or more.

REINBERG BROS., 51 Wabash Ave., **Chicago.**

ROSES, all the very best both new and old.

CHRYSANTHEMUMS, the cream of all the long list now offered, in extra fine plants now ready for immediate delivery.

JOHN N. MAY, Summit, New Jersey.

100,000. 100,000.

H. R. Roses, low budded, Standard Climbers. Tree Roses and Rosa rugosa. 100,000 of Rhododendron, Azalea mollis, chinensis and pontica. Clematis in varieties, Aucuba, Dutchman's pipe; also Palms, Azalea indica, Bulbs, Dahlias, Tuberous Begonias, and all articles for forcing purposes.

100 AND 1000 PRICES ON APPLICATION.

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Brides, Bridesmaids, Perles, Meteors, Hostes, From 2, 3 and 4-in. pots. **ROSES** Cusins, Beauties, Niphetos, Testouts, La France, Mermets,

Address for quotations T. W. STEMMLER, **VILLA LORRAINE ROSERIES, Madison, N. J.**

Sole Agents for U. S. for **Chas. Macintosh & Co., England,** Inventors of Vulcanized India Rubber, Extra strong greenhouse hose to withstand high pressure. ¾-in., 3-ply, 15c. per foot in 60 feet lengths.

ROSES. ROSES.

Brides, 2½-inch	$3.50	per 100
Mermets, "	"	"
Perles, "	"	"
Sunsets, "	"	"
La France, "	"	"
Albany, "	"	"
Niphetos, "	"	"
Wootton, "	4.00	"
3½-inch of above varieties	$6.00	per 100
Ageratum May Flower (best blue), 2½-inch pots	$2.00	per 100

BAKER BROS.,
P. O. Box 72, KANSAS CITY, MO.

Rose Plants.

K. A. Victoria, 2½-inch	$5.00 per 100
Meteor, 2½-inch.	4.00 per 100
Bride, 2½-inch.	3.50 per 100
Bridesmaid, 2½-inch, $5, 3-inch,	8.00 per 100

Strong, thrifty plants.

BROWN & CANFIELD, Springfield, Ill.

FOR SALE.

Choice lot of young rose plants out of 2½ and 4-inch pots. Mermets, Brides, La France, Perles and **Bridesmaids.** Apply

GORDON PARK GREENHOUSES,
Glenville, Cuyahoga Co., Ohio.
Mention American Florist.

Surplus Stock 50,000 Roses

We still have above number in prime condition and want to dispose of same at once for cash. It will pay every florist to plant out one or two thousand of these Roses, the cut flowers will more than pay the cost.

For $20 we will Express you 1000 Roses in following sorts—quality and safe arrival guaranteed:

Ct. de Labarthe, Bride, Mermet, Perle, Schwartz, Devoniensis, Therese Levet, Niveus, Golden Gate, Papa Goutier, Dijon, White, Pink and Red La France, Meteor, Mrs Degraw, W. A. Richardson, Pradel, Christine de Noue, F. Krueger, Cels, Queens Scarlet. Outside of these have 50 more sorts; leave selection to us and we can furnish at same figures. Send your lists to be priced.

Address **NANZ & NEUNER, Louisville, Ky.**
Mention American Florist.

ULRICH BRUNNER.

Extra strong plants, 2½-inch pots, $6.00 per 100; $50.00 per 1000.

JOSEPH HEACOCK,
Wyncote, Pa.

ROSES.

Mermets, Cusins and Wattevilles, $3.50 per 100. Bridesmaids, Brides, Hoste, Gontier, Meteor and La France, $4.00 per 100.

Strong American Beauties, $6.00 per 100; $50.00 per 1000. Well rooted Beauty cuttings, $3.00 per 100.

☞Special prices on quantity. Let me price your lists. Cash with order.

ROBERT F. TESSON,
West Forest Park, St. Louis, Mo.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remembe it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THE WORK recently done by Rev. W. T. Hutchins in a critical examination of sweet peas now being grown in various sections of California, will be of great interest to all florists and seedsmen who grow or sell these flowers. Mr. Hutchins has very kindly promised to supply the FLORIST with two or three articles covering the lines in which the greatest improvements are needed in this popular flower, and on which it is of the greatest importance that American seedsmen and florists be united and act together.

THE DINGEE & CONARD COMPANY'S trouble seems to have been brief, the court on examination, turning the business promptly back to present management. It was never thought possible by those acqnainted with the financial affairs of the concern that there could be any lack of funds, the existing trouble arising mainly from differences of opinion among stockholders.

DO YOU WANT a complete alphabetical list of carnations incommercein America, with name of introducer, date of introduction and brief, accurate description of each? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

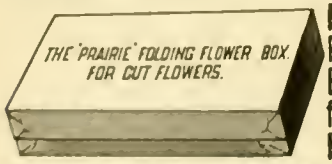
PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

NOTICE.

Chicago Flower Exchange.

At a special meeting of the Stockholders of the Chicago Cut Flower Exchange, held at No. 45 Lake Street, Saturday morning, April 28th, it was resolved to discontinue the business. All persons having claims against the Chicago Cut Flower Exchange are requested to present same at once, and those indebted to said Exchange are requested to make payment without delay to

GEO. KLEHM, Sec'y,
59 Wabash Avenue, CHICAGO.



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Made from heavy, Manilla lined, Strawboard. Shipped flat, packed 100 in a crate.

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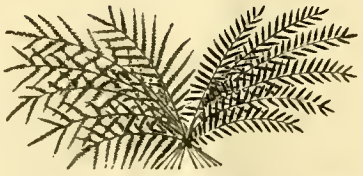
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The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
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Wholesale Markets.

Cut Flowers.

NEW YORK, May 26.

Roses, Perle, Cusin, Watteville	1.00@ 3.00
" Meteor, Mermet, Bride	2.00@ 4.00
" Bridesmaid, La France	2.00@ 4.00
" Testout, Kaiserin	2.00@ 5.00
" Beauty, Hybrida, Jacqa	3.00@15.00
Carnations	.75@ 1.25
Harrisii	2.00@ 6.00
Valley	1.00@ 3.00
Sweet peas	.25@ .50
Mignonette	1.00@ 3.00
Centaurea	.50
Paeonies	1.00@ 2.00
Marguerites	.25@ .50
Cattleyas	25 00@35.00
Smilax	15.00@17.00
Asparagus	35.00@50.00
Adiantum	1.00

BOSTON, May 26.

Roses, Niphetos, Gontier	4.00@ 6.00
" Perle, Sunset	4.00@ 8.00
" Bride, Mermet	6.00@ 8.00
" Hybrida	6.00@25.00
Carnations	2.50@ 3.00
Stocks, astilbe	2.50@ 3.00
Harrisii	8.00@12.00
Lily of the valley	2.00@ 4 00
Mignonette, Marguerites	.50@ 1.00
Sweet peas, Myosotis	.50@ 1.00
Adiantum	1.00
Smilax	12.00@17.00
Asparagus	50.00

PHILADELPHIA, May 26.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watteville, Hoste	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 5.00
" Kaiserin, Bridesmaid, Testout	5.00@ 8.00
" Belle, Beauty	10.00@25.00
" Jacqa	10.00@15.00
Carnations, fancy	2.00@ 3.00
" good ordinary	.75@ 1 25
Valley	3.00@ 4.00
Yellow daisies	1.00@ 1 50
Mignonette	1.00@ 1.50
Asparagus	50.00@75.00
Harrisii lilies	6.00@ 8.00
Sweet peas	.50@ 1.00
Cornflower	.75@ 1.00
Pyrethrum	1.50@ 2.00
Cattleyas	40.00
Orchids	15.00@40.00
Smilax	15.00@20.00

CHICAGO, May 29.

Roses, Perle, Gontier, Niphetos	3.00@ 5.00
" Mermet, Bride, La France	4.00@ 5.00
" Wootton, Meteor, Bridesmaid	4.00@ 6.00
" Assorted	4.00
" Beauty	10.00@25.00
Carnations, long	1.50@ 2.00
" fancies	2.00@ 3.00
Valley, narcissus (double poeticus)	2 00@ 3.00
Sweet peas	.60@ .75
Harrisii, Longidorum	10.00@15.00
Pansies, marguerites	.50
Paeonies	5.00@ 8.00
Gardenias	1.00@ 3.00
Cornflowers	.50@ 1.00

CINCINNATI, May 27.

Roses, Beauty	10.00@25.00
" Mermet, Bride	3.00@ 4.00
" La France	5.00
" Perle	2 00@ 3.00
Carnations	1.00@ 3.00
" short	.75
Callas, Harrisii	6.00
Sweet peas	1.00@ 1.25
Valley	2 00@ 3.00
Smilax	15.00
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, May 26.

Roses, Perles, Niphetos, Wootton	3.00@ 4.00
" Bride, Mermet, Bridesmaids	4.00@ 5.00
" Meteors	6.00
" La France, Albany, Hoste	3.00@ 5.00
" Beauty	5 00@20.00
Smilax	15.00@18.00
Sweet peas	1.00
Carnations, long	1.00@ 1.50
" short	.75
Adiantum	1.00
Ferns, common, per 1000	$1.25

BUFFALO, May 28.

Roses, Beauties	15.00@25.00
" Mermet, Bride	5.00@ 7.00
" Meteor	5.00@ 6.00
" Gontier, Perle, Hoste	5.00@ 6.00
" Cusin	5.00@ 6.00
Callas, Harrisii	10.00
Carnations, long	2.00@ 2.50
" Daybreak and Wm. Scott	3.00
" short	1.00@ 1.50
Valley	2.00@ 2.50
Mignonette	1.00@ 2.00
Sweet peas	.75@ 1 50
Smilax	15.00@20.00
Adiantum	1.50
Asparagus	50.00

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For 1894
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Price $2.00.
AMERICAN FLORIST CO.,
CHICAGO.

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SPECIALTIES:
American Beauty,
Bride,
Bridesmaid,
Meteor,
Sweet Peas.
BURNS & RAYNOR,
49 West 28th St., NEW YORK.

THOS. YOUNG, Jr.,
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DESIRABLE STOCK FOR
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The product of the most extensive and successful growers for the New York market.
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Roses Shipped to all points. Price list on application.
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Careful Shipping to all parts of the country. Price list on application.

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Established 1879.

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REAR OF 42 S. 16th STREET,
Philadelphia, Pa.
Mention American Florist.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, at Toronto, Ont.

HART, WELLS & Co. succeed E. Decker at Wethersfield, Conn.

CHARCOAL is one of the best preservatives known for short lived seed.

PROSPECTS for pansy seed crop in Germany are reported good on May 1.

VISITED NEW YORK: W. Atlee Burpee, F. R. Pierson, E. B. Clark, C. Ribsam, J. T. Lovett.

TRAVELING salesmen report florists as rather shy in giving import orders for forcing bulbs.

THE RAINS in California about May 15 have improved the seed prospects there, especially the onion fields.

SEVERE FROSTS have occurred in northern parts of Germany about May 12 to 15, damaging beans and other tender stuff.

MR. LEM. BOWEN, of D. M. Ferry & Co., now on an extended business trip in Europe, is at present in France and will return home about July 15th.

CHICAGO.—Mr. S. F. Leonard left for California May 29, accompanied by Mrs. Leonard. Mr. J. C. Vaughan has returned from his eastern trip.

MR. J. HULSEBOSCH, of Hulsebosch Bros., who has just made a five weeks' trip in the U. S., sailed for home via the Netherlands line Saturday, the 26th.

NEW YORK.—Mr. F. W. O. Schmitz has gone on a European trip. He will return early in July. Mr. J. W. Eldering is making a business tour of the middle states. Mr. C. Cropp will sail for Europe on June 2. Mr. J. C. Vaughan of Chicago has been in town for the past week.

MRS. S. Y. HAINES, wife of the well known seedsman, died in Minneapolis, May 23rd. Hers was a rare, kindly and unassuming nature, and she was much loved and esteemed by all who knew her. Mr. and Mrs. Haines were inseparable in their married life and deep sympathy is felt at his sad loss.

THE FROSTS of May 25, 26 and 27 in many places in the west and southwest have seriously damaged the tomato and melon plants as well as many small fruits. The hard frosts in the neighborhood of Waterloo, Neb., on the night of the 18th were not thought to have occasioned serious loss beyond repair.

THE PROGRAMME for the meeting of the American Seed Trade Association at Toronto, beginning June 12, is in the hands of the members. The topics are all of general interest, and this first gathering on Canadian soil should be a large one. It is understood that the attendance of wives of members will be larger than usual, as the trip affords an excellent opportunity to visit the Falls.

PHILADELPHIA.—John Gardiner & Co. have secured a new location at 631 Market street, whither they will move as soon as improvements are completed, which will probably be before July 1. They will occupy the whole building, five floors, and will have more than double their present room. Z. De Forest Ely's seed window has been temporarily given over to a unique scene representing a member of the G. A. R., decorating a soldier's grave with metal wreaths. Mr. Ely reports a very heavy Decoration Day demand for these goods.

Sunset Seed and Plant Co.

(SHERWOOD HALL NURSERY CO.)

No. 427-9 SANSOME STREET,

SAN FRANCISCO, CALIFORNIA.

HEADQUARTERS FOR

CALIFORNIA-GROWN SWEET PEAS

And other Flower Seeds.

PACIFIC COAST TREE SEEDS

And Native Bulbs.

JAPANESE LILY BULBS

And other Oriental Specialties.

ONION SEED, PEAS, BEANS, ETC.

Write for special contract prices.

Established 1830.

R. VAN DER SCHOOT & SON,

HILLEGOM, - HOLLAND,

Largest Growers of

HYACINTHS, TULIPS, NARCISSUS,

SPIRAEA, LILIES OF THE VALLEY, ETC.

HEADQUARTERS FOR HIGH GRADE FORCING BULBS.

Wholesale Importers should write us for Prices.

OUR NEW TRADE LIST NOW READY.

DUTCH BULBS.

ELDERING BROTHERS, of OVERVEEN, HOLLAND.

One of the oldest and most reliable Dutch houses, offer the best of facilities to American buyers, having a resident Agent in New York thoroughly posted on this stock and who will make all customers' entries, with quick deliveries in good order, from New York City. Latest reduced price list sent free.

JOHN W. ELDERING, 78 Barclay Street, NEW YORK.

CYCLAMEN SEEDS,

European strain.

LILIES OF THE VALLEY,

Berlin and Hamburg Pips.

FLOWER SEEDS for Fall delivery.

METAL WREATHS.

All at Import Prices.

SCHILLER & CO.,

Commission Seed Merchants,

122 E. 23rd Street, NEW YORK.

Please make us offer of all kinds of Seeds and Bulbs, we will sell it for you.

Hulsebosch Brothers,

OVERVEEN, near Haarlem, HOLLAND.

Bulbs AND Plants

We are now prepared to quote lowest possible prices for next July, August and September delivery.

HULSEBOSCH BROS.,

58 West Street, NEW YORK CITY.

After May 1, '94, address will be ENGLEWOOD, N. J.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

CHEAP FLOWERS

During the whole season from Christmas up to Easter.

There are thousands of people who at Easter time want to purchase a plant, but their limited means won't allow them to purchase an Azalea or even a dollar Lily. They want some little plant for 25 cents, and this should not be lost sight of. A Dutch Hyacinth or 4 to 5 Tulips or Daffodils in a 4-inch pot fills the bill.

Rich and poor alike will buy a flower for Easter. Hard times or prosperity—free trade or protection—won't affect it.

SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE. near Haarlem, **HOLLAND,**

Offer HYACINTHS, TULIPS, DAFFODILS

And all other bulbs for forcing and outdoor, in extra fine quality, at very low rates.

ASK FOR OUR 1894 CATALOGUE.

Orders Booked Now



for Future Delivery:

Lily of the Valley, forcing pips; Roman Hyacinths, Narcissus, Spiræa, and all forcing bulbs. Azalea, Rhododendron, Roses, etc., plants. Address

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. New York.

. . DUTCH BULBS . .

PETER VAN VELSEN & SONS,
Houtvaarl-Overveen near Haarlem, Holland.
Growers of Hyacinths, Tulips, Crocus, Narcissus, etc. Catalogue free on application. Special prices given for large quantities.
Established 1834.

Our buyers will visit Holland, Southern France and Bermuda during the month of June, and orders placed with us now will have most careful personal attention by them.

IMPORT BULB PRICES.

ROMAN HYACINTHS, and all French Bulbs.
LILIUM HARRISII AND LONGIFLORUM.

NOW is the time to order. We are quoting the lowest rates of the season.

NEW YORK: 26 Barclay Street. VAUGHAN'S SEED STORE 146-148 W. Washington St., CHICAGO.

VAN ZONNEVELD BROTHERS & CO.
SASSENHEIM, - HOLLAND,
—— GROWERS OF ——
HYACINTHS, TULIPS, NARCISSUS, ETC.
Now ready to quote our lowest prices for Wholesale Importers.

SUMMER DELIVERY.
FREESIAS, LIL. LONGIFLORUM, CALLAS, GEM CALLAS, AMARYLLIS, CALIFORNIA BULBS, Brodiæas, Calochortus, Fritillarias, TREE FERN STEMS, and Australian Palm Seeds. Send for our NEW PRICE LIST.
H. H. BERGER & CO.,
Established 1878. SAN FRANCISCO, CAL.

PRICES LOWER ON
Bulbs and Plants
OF STANDARD QUALITY.
For Catalogue, address
C. H. JOOSTEN, IMPORTER.
3 Coenties Slip, NEW YORK.

Always mention the AMERCAN FLORIST when writing to advertisers.

Always mention the American Florist when writing to advertisers.

Baltimore.

There is no lack of rain, and even when water is not actually falling from the skies the ground is in such a saturated condition that planting operations are almost entirely suspended. At this writing, though, clear weather flags are flying from the signal stations, and the indications are that summer is fairly upon us.

The same old cry is heard of price cutting now and then, and the price cutters of one season are very frequently the loudest talkers of the next. It is no doubt very discouraging to see prices drop, but on the whole it may be doubted whether they have dropped any more in flowers and plants than in every other merchantable commodity during the past decade, and it may also be doubted whether price cutting is any worse among florists than among every other class of tradesmen. It is one of the asperities of life that we have to become accustomed to, and to hear a man denouncing it continually is rather a suspicious sign.

"One usually suspects in others the faults he finds in himself" you know.

Sales in cut flowers are far from being entirely out of accounts, though plants are the money makers for the time being. First-class flowers sell fairly well yet, but are not as plentiful as might be expected.

MACK.

Chestnut Hill, Pa.

Edwin Lonsdale is greatly interested in three begonias, each distinct, which have come up from seed among some Cattleya Mossiæ recently imported. While he does not claim as yet that these begonias are not in cultivation, still they are new to him and the chances are in his favor. He has a handsome yellow carnation which has sported from Helen Keller. In color and markings it closely resembles Buttercup, but if it proves to have with the Buttercup color the superior points of growth and blooming which are characteristic of Helen Keller he will indeed have a prize. Among the roses Mr. Lonsdale has planted for next winter's flowering is a fine bench of Rodocanachi. He has observed that it seems more prone to mildew than any other hybrid.

John Burton has just rebuilt four large houses and will add more in the fall. He will go heavily into carnations and has 12,000 of these now planted out. Mr. Kennedy, the foreman, says that Grace Battles does well with them if kept indoors and not planted outside at all, and that their faith in this variety is demonstrated by the fact that they propose to plant two houses exclusively with it.

Hartford, Conn.

The Hartford County Horticultural Society meets regularly on the first Wednesday of every month at the county building. There will be an exhibition of flowers, fruit and vegetables about middle of June, another early in September and a chrysanthemum show in November. Late in March, 1895, the spring exhibition of flowering bulbs, roses and carnations will be given.

DO YOU WANT the census statistics regarding the florist, nursery and seed trades? You will find them in our trade directory and reference book for 1894. Price $2.00.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

PANSIES,

THE JENNINGS STRAIN.

Plants in bud and bloom $1.50 and $2.00 per 100, $15.00 per 1000; medium sized plants of mixed, white or yellow, $5 00 per 1000. Extra 60c hundred by mail.

New crop Pansy Seed ready June 25th, better than ever. Cash with order.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock Box 254. SOUTHPORT, CONN.

Chrysanthemums.

Strong, healthy plants, 25 at 1 0 rates.

	Per 100
NIVEUS, white	$ 5 00
CHALLENGE, yellow	15 00
C. DAVIS, yellow Morel	5 00
WHITE BOEHMER, white	5 00
C. CHALFANT, yellow	5 00
E. DAILLEDOUZE, yellow	10 00
MRS. E. G. HILL, early pink	10 00

10 of each for $6 00. 5 of each for $3.50. Cash with order.

T. H. SPAULDING, Orange, N. J.

100 PLANTS AT 1000 PRICE.

Coleus, Alternanthera and Geraniums, best varieties, such as Verschaffeltii, Paronychioides major and Gen'l Grant, and many others, $2.50 per 100. **Our "HARD TIMES" $3 and $5 cash Collections** are taking immensely. We give 17 3 & 4-inch pot **Palms** for $3.00, and 34 for $5.00. These include the best kinds Latanias, Kentias, etc. With every order mentioning AM. FLORIST we will give free 5 large Tritoma Uvaria. A TEN DAY offer.

WILLIAMS & SONS CO., Batavia, Ill.,
Manufacturers of BATAVIA LABELS.

CROPP'S
RIESEN PENSEE

neue ernte fertig mitte Juni. Blumen uber 3 zoll im Durchmesser, schone Form, meist helle Farben, von unubertrefflicher Qualitat. 1000 Korn $1.00; 5000 Korn $1 in Briefmarken oder Post Anweisung.

CARL CROPP,
Erfurt, Germany.

Hardy Water Lilies.

LARGE RHIZOMES.

	Per Doz.	Per 100
NYMPHÆA Odorata	$1.00	$ 7.50
" Gigantea	1 60	7.50
" Minor	1.00	7.50
" Tuberosa	1.00	7.50
" Rosea	2 00	15.00

GEORGE FARRANT, Salem, N. C.

CLEMATIS
For Fall Delivery.

Special prices at wholesale, on application. Splendid stock and assortment.

F. A. BALLER, Bloomington, Ill.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

SMILAX, nice plants in 2½-inch pots, $2.00 per 100; $15.00 per 1000. Transplanted Seedlings, $1 per 100; $8 per 1000. A few hundred Roses—Meteor, Perle and Hoste, 3-inch, ready for a shift, $6 00 per 100.

JOSEPH E. BONSALL, Wholesale Florist, Salem, O.

FOR SALE.

Large SMILAX PLANTS, grown dormant during winter, planted now will crop in August. Sample free. Price $5.00 per 100. Address

W. J. Downes, 1854 Sherman Ave., Evanston, Ill.

ALTERNANTHERAS.

Red and Yellow, good size, $2.50 per 100.

McCREA & COLE, Battle Creek, Mich.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

DWARF FRENCH CANNAS

We offer an immense stock of strong, well established plants from 4-inch pots, which will make a display at once. All have been well hardened off in open frames, and must not be confounded with dormant eyes or freshly divided plants out of benches.

We list here only the principal varieties, of which we have a large supply. For a general list refer to our Spring Trade List, which describes over seventy-five varieties including all the desirable novelties of the season.

	Per 100
Madame Crozy	$10.00
Alphonse Bouvier	10.00
Paul Marquant	8.00
Florence Vaughan	25.00
Charles Henderson	25.00
Paul Bruant	15.00
Comtesse de L'Estoile	15.00
Chas. Dippe	15.00
Cronstadt	15 00
Explorateur Crampbel	12.00
Gustav Senneholz (true)	10.00
Maurice Mussy	15.00
Marquise Arthur de L'Aigle	10.00
Nardy Pere	15 00
Secretary Stewart	10 00
Antoine Crozy	8 00
Baronne de Sandrans	10.00
Baronne de Renowardy	8 00
Comte Horace de Choiseuil	10.00
Duchess de Montenard	10.00
E. Chevreul	12.00
Enfant du Rhone	8 00
Edward Michel	10.00
Geoffroy St. Hilaire	8 00
J. Thomayer	15.00
Miss Sarah Hill	10.00
Mr. Cleveland	10 00
Mlle. Liabaud	8.00
Nelly Bowden	6.00
Princess Lusignani	10.00
Statuaire Fulconis	8.00
Ventura	8.00
Viticulteur Gaillard	8.00
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Francois Corbin	8.00
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Mlle. de Cruillon	10.00
President Hardy	10.00
Pierette de Biorlet	8.00
Isaac Casati	8.00
Duc de Montenard	10.00
Segionaire	8.00
Sophie Buchner	25.00
Emile Leclerc	6 00

We will furnish one each of the above varieties, 46 plants for $5.00, or if this set contains duplicates of any varieties you have in stock we will omit any that you may specify and add other choice varieties in their place.

HENRY A. DREER,
PHILADELPHIA, PA.

REX BEGONIAS, ANEMONE JAP. ALBA, fine stock from 2 and 2½-in. pots, $3.00 per 100.

CHRYSANTHEMUMS:

Golden Wedding and Good Gracious, rooted cuttings, $3.00 per 100. Ivory, Widener, Domination, W. Falconer, Jessica, and 20 other fine cut flower varieties, at $1.00 per 100.

HONEYSUCKLES, everblooming, white and pink $8.00 per 100.

EVERBLOOMING ROSES, 20 good market kinds, in fine condition for immediate sales, 3-inch, $6.00 per 100; 4-inch, $10.00 per 100.

ALYSSUM TOM THUMB, nice seedlings, ready to pot, $4.00 per 1000.

Would exchange with reliable parties for small Palms

EVENDEN BROS., Williamsport, Pa.

THE GREAT ANTIPEST.

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,
201 Amity Street, FLUSHING, Queens Co., N. Y.

THE AMERICAN FLORIST CO.'S DIRECTORY AND REFERENCE BOOK

FOR 1894

CONTAINS THE FOLLOWING:

1. The names and addresses of the Florists, Nurserymen and Seedsmen of the United States and Canada, the exact branch of the business each is engaged in being indicated.
2. A separate list of firms that issue catalogues, the space devoted to each branch of the business in each catalogue being also given.
3. A list of the names and addresses of superintendents of leading parks in the U. S. and Canada.
4. A list of the principal cemeteries of America at which the arts of the landscape gardener and florist are used in beautifying the grounds.
5. A complete, alphabetically arranged list of Roses in commerce in America, with class, habit of growth, date of introduction, name of introducer, and brief, accurate descriptions of the flower of each. Synonyms are also plainly given.
6. A complete, alphabetically arranged list of Chrysanthemums in commerce in America, with class, and brief, accurate description of each. Synonyms are noted and varieties that are very popular with American growers are designated by a star, and this year's introductions by a dagger.
7. A complete, alphabetically arranged list of the Carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each.
8. Seasonable Hints for the year, arranged in weeks, written by Mr. William Scott, and covering every detail of a general florist business. This is decidedly the most valuable contribution to the literature of the trade ever published. It is written in a plain, practical way, by a man who knows what he is talking about.
9. A historical sketch of the Society of American Florists from its organization to date, including officers for each year and lists of essays read at each meeting, with other information of interest.
10. A similar historical sketch of the American Association of Nurserymen.
11. A similar historical sketch of the American Carnation Society.
12. A similar historical sketch of the American Seed Trade Association.
13. Similar historical sketches of the Florists' Hail Association of America; of the National Chrysanthemum Society of America; of the Florists' Telegraph Delivery Association.
14. A complete list of all National and Local Trade Organizations, with names and addresses of principal officers, time and place of meetings, etc.
15. Statistics of Commercial Floriculture in the U. S. from the last census.
16. Statistics of the Nursery Industry in the U. S. from the last census.
17. Statistics of Seed Growing in the U. S. from the last census.
18. A list of Leading Horticultural Societies, with name and address of the Secretary of each.
19. Full information about Express and Postage rates on plants, shrubs, trees, seeds and bulbs.

No less than 270 pages of valuable reference matter in compact form, and all UP TO DATE.

PRICE $2.00 POSTPAID.

AMERICAN FLORIST CO.,

P. O. Drawer 164. CHICAGO.

RUBBERS.

Tree grown, three to eight branches, very fine stock, $12.00 to $25.00 per dozen.

PALMS, leading varieties at bottom prices.

J. T. ANTHONY,

2205 Michigan Ave., CHICAGO, ILL.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Carnations.

Last call for **Annie Pixley**; can you afford to go without this beautiful new pink? I do not think you can when you can get 25 well rooted cuttings for $2.50 cash with the order.

Smilax.

Transplanted plants, an honest sample of which will be mailed you on receipt 10 cts. The price is 75 cts. per 100, or $6 00 per 1000, cash with the order.

ALBERT M. HERR, L. B. 496, **Lancaster, Pa.**

20,000 ARAUCARIAS

ARAUCARIA EXCELSA, 6 to 8-inch plants, ***$35.00 PER 100; $6.00 PER DOZ.***

ARAUCARIA IMBRICATA, 3 to 4 in. high, ***$8.00 PER 100; $1.50 PER DOZ.***

The above delivered by Mail or Express at prices quoted.

New Crop	Phœnix Canariensis,	$2.50 per 1000 Seeds
"	Washingtonia filifera	.75 per lb.
"	Chamærops excelsa	.50 per lb.
"	Grevillea robusta	5.00 per lb. 50c oz.

COX SEED AND PLANT CO.

411, 413 & 415 Sansome Street,

SAN FRANCISCO, CAL.

FOR SALE.

ABOUT 10,000 PLANTS AT THE LOW RATE OF ONLY $3.00 PER 100.

Fine strong plants of Coleus, such as Golden Bedder, Verschaffelti, Queen Victoria; yellow and red Alternantheras, Pyrethrum Golden Feather, Verbenas, single variegated Petunias, dwarf Phlox, Musk, cupheas, Torenia Fourneri, Lobelias, Parlor Ivys.

About 1,000 Trophy Tomatoes grown in 2½-inch pots, Egg Plants.

Also at only $5.00 per 100 Geraniums, fine variety, mixed, in bud, 4-inch pots; Fuchsias, Heliotrope, Scarlet Sage, Lantanas, Japan Pinks, Calendulas, double and single stocks, Moon Vines, 4-inch, $1 per doz. Cash with order only.

Chrysanthemums, strong, mixed clumps, $1.00 per dozen.

G. ASCHMANN, Florist,

1012 Ontario St., RISING SUN, PHILA.

PALMS.

150,000 of all the leading varieties.

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50,000 of leading varieties.

Address **GEORGE WITTBOLD,**

1708 N. Halsted St., CHICAGO.



Tuberous Begonias.

GRIFFIN'S STRAIN.

Medal awarded World's Fair.

We are headquarters for the above, the finest strain in the world. Send for illustrated descriptive catalogue with copyright engravings. It tells you all about them.

OASIS NURSERY CO.,

Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.

PLANTS.	Per 100
Fuchsias, best varieties, nice, 2½-inch pots	$2.00
" " " " 3-inch pots	3.00
Geraniums, Bronze, nice plants	2.50
" Mme. Salleret, nice plants	2.00
" double and single, 2½-inch pots	2.50
Begonias, mixed, many varieties, 2½-inch pots	3.00
Alternanthera aurea nana, stocky plants	1.50
" P. major, stocky plants	2.00

Address **N. S. GRIFFITH,**

Independence, Jackson Co., Mo.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

"HELEN KELLER"

The new Carnation; pure white, delicately marked with red.

Price for well Rooted Cuttings: $3.00 per dozen; $12.00 per 100; $25 00 per 250; $90.00 per 1000. 500 at 1000 rate. Orders may be sent either to

JOHN N. MAY, Summit, N. J. EDWIN LONSDALE, Chestnut Hill, Phila.

NEW CARNATIONS

Ready to ship at once from flats and pots.

2000	Uncle John	$10 00 per 100; $75.00 per 1000
2500	The Stuart	10.00 per 100; 75.00 per 1000
700	Dinz Albertini	6.00 per 100.
2000	Wm. Scott	5 00 per 100: 40 00 per 1000

200 MAJOR BONNAFFON CHRYSANTHEMUMS. $5.00 per dozen; $35.00 per 100.

FRED. DORNER & SON,

LAFAYETTE, IND.

WM. SCOTT CARNATION!!!

Rooted Cuttings, $5.00 per 100. Strong Plants, $7.00 per 100.

Also a fine lot of other varieties. Send for prices.

GEO. HANCOCK & SON,

GRAND HAVEN, MICH.

ROOTED CUTTINGS OF CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chester Co., PA.

Mention American Florist.

CARNATIONS

Rooted Cuttings all sold or planted out. Field plants for sale in the fall.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

THE JACQUEMINOT CARNATION

Is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. **NO MORE SAMPLES**—we cannot spare the time. Send for circular. Per dozen, $2.00; per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.

PETER FISHER & CO.,

ELLIS, Norfolk Co., MASS.

HEALTHY ROOTED CUTTINGS

Carnations AND Chrysanthemums.

STANDARD VARIETIES.

MARIE LOUISE VIOLET RUNNERS.

SMILAX, 2½-inch pots.

Satisfaction and prompt shipment guaranteed.

SAMUEL J. BUNTING,

Elmwood Ave. & 58th St., PHILA., PA.

ROOTED CUTTINGS CHRYSANTHEMUMS

Write for list and prices. Prices to suit the times.

STRONG SMILAX, from 2½-inch pots, $3.00 per 100; $25.00 per 1000.

PANSIES, from cold frame, $15.00 per 1000.

Address **J. G. BURROW, Fishkill, N. Y.**

Mention American Florist.

CARNATIONS. SPEAK QUICK.

1000 Lizzie McGowan; 500 Portia, and 500 Hinze's White. All well rooted cuttings, at $1.00 per 100. Cash with order or C. O. D.

JAMES CHALK, Norristown, Pa.

The Convention Exhibition.

The entries for the exhibition at the S. A. F. Convention, Atlantic City, next August, are coming in very well. About one-half the available space has already been applied for and everything points to a large, varied, and representative exhibit. Quite a few novelties that have never before been properly presented to the commercial florists will be shown, among them being remedies for carnation rust and anthracnose and violet rust and other fungous diseases, prepared under the formulas of Professor Galloway and Professor Riley, who have done so much of late years to extend our knowledge in vegetable pathology and entomology. Entries close July 21 with G. C. Watson, Superintendent of Exhibition, 1025 Arch street, Philadelphia, who will furnish application blanks and all information on application.

St. Paul, Minn.

Favorable weather during the week has kept the florists on the move, and trade has been very satisfactory. Cut flowers have not sold as readily as plants, still there has been no surplus and no cutting of prices in that line, and Saturday night practically finds everything cleaned out in the cut flower line.

Roses are still held at $1 per dozen, carnations at 30 to 40 cents. Some fine Daybreaks are still seen and sell readily at 40 cents, where others are bringing 25 and 30 cents. While the number of Daybreak planted the last year was small, still it has given such general satisfaction that every grower will plant largely of it another season.

In bedding plants nearly everything is selling readily. There is a large demand for roses and ivy geraniums, also S. A. Nutt and Mrs. Beadsley geraniums, they being the leaders in their respective colors. Coleus are not selling quite as well as usual. Carpet bedding is going out of date in this section, and beds of showy geraniums and other flowering plants are taking its place. FELIX.

ROOTED CUTTINGS

COLEUS, 10 kinds by mail.....60c per 100
" 12 kinds by express..$4.00 per 1000
ALTERNANTHERA P. Major by mail.....50c per 100

CASH WITH ORDER.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

JUST RECEIVED **Fresh Seeds**

Cocos Weddelliana..... at $10.00 per 100
Latania Borbonica..... at $4.50 per 100
Order at once.

W. A. MANDA,
The Universal Horticultural Establishment,
SOUTH ORANGE, N. J.

Verbenas

SPECIAL OFFER. Per 100 Per 1000
Unsurpassed Mammoths 2¼-inch pots .. $3.00 $25.00
General collection, named 2¼ inch pots .. 2.50 22.00
Geraniums, double and single 3½-in. pots 8.00
Send for price list of Carnations, Chrysanthemums and other florist stock

WOOD BROTHERS,
Fishkill, N. Y.

A FEW MORE GEMS AND NOVELTIES IT WILL PAY YOU TO CULTIVATE LARGELY

ABUTILON AUDRAKEN AN BONN, a striking novelty in variegated plants, as an iso'ated plant in vases or on lawn equaled by few others. Silvery white variegation on dark green foliage, very fine. $6 per 100; $1 per 12.
TORENIA AZUREA GRANDIFLORA, a fine bedding plant of new color, and constant bloomer. $6 per 100; $1 per 12
FUCHSIA ABBE GARNIER, far superior to Phenomenal in every respect. $6 per 100; $1 per 12
FUCHSIA BRIDAL VEIL, the ne plus ultra in double white, free and early bloomer, large and perfect, flowering in greatest abundance. $6 per 100; $1 per 12.
PASSIFLORA PFORDTII VARIEGATA, the handsomest blooming vine for general cultivation, constant bloomer, rapid grower. $6 per 100; $1 per 12.
GLOXINIA ERECTA, an extra fine strain; plants in bud from 3-inch pots. $6 per 100; $1 per 12.
MUSA ENSETE, most effective of all foliage plants for quick growth on lawn, etc. From 7-inch pots, 3 ft. high, $5 per 12; 50c each. From 3-inch pots, 3 ft. high, $2 per 12; 25c each.
GERANIUMS—Sunray, the best golden bicolor; Hollywreath, variegated Ivy. $6 per 100; $1 per 12.
ACACIA LOPHANTHA from 2-in. pots, $4 per 100.
STEVIA VARIEGATA from 2-in. pots, $4 per 100.
We still have a large assortment of old and new Plants. Please let us give you an estimate on your wants. Address

NANZ & NEUNER, Louisville, Ky.

PLANTS.

	Per 100
Alternantheras, P. major, Aurea nana, Tricolor (Rosea nana), Versicolor	2.50
Perennial Phlox, fine assorted	$6.00 and 4.00
Achillea "The Pearl"	4.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't	$3.00 and 4.00
Abutilons, assorted	4.00
Echeveria Extensa globosa, 3 to 6 inches across, per dozen, $1.00.	
Lady Washington Geranium	6.00
Achyranthus, assorted	3.00
Coleus, assorted	$2.00 and 3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Antheicum picturatum	per dozen, 75c.
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00
Silver-Leaf Geraniums, 3 varieties (no Mme. Salleroi)	4.00
Oxalis, Ortgiesi	4.00
French Cannas, named, our selection, dry roots	5.00
French Cannas, unnamed	3.00
" " potted	10.00
Fancy Leaf Caladium, fine mixed	6.00
" " " named	8.00
Pansies nice plants in bloom	2.00
Smilax (cut), per string of 5 feet	12c

Trade list on application.

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Box 99. KANSAS CITY, MO.

Siebrecht & Wadley,

ROSE HILL NURSERIES,
NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.
Mention American Florist.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 36 Greenwich St., New York City.

TRY **DREER'S GARDEN SEEDS,**
Plants, Bulbs & Requisites.
They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

Surplus Stock.

	Doz.	100.
Alyssum Tom Thumb, variegated and white	$.40	$3 00
Ageratum, white and blue	.40	3 00
Aloysia citriodora	.60	
Abutilon, our selection	.50	4.00
Alternantheras from flats	.25	2.00
Begonias, Argentea, Guttata and Metallica	.40	3.00
" Listri or Diadem	.60	4.00
Calla Little Gem, 3-inch	1.50	12.00
Centaurea Gymnocarpa	.40	3.00
Cestrum Parqui	.60	5.00
Coleus, our selection	.40	2.50
" named varieties	.50	3.00
Cissus Discolor, fine 2-in	.75	6.00
Cannas, our selection	1.00	6.00
Daisy, Snow Crest	.75	
Fuchsias, our selection	.50	3.00
" Trailing Queen and Little Beauty	1 00	8.00
Geraniums, our selection	.50	3.00
" Ivy leaved, our selection	.50	3.00
" " L'Elegant	.75	
Glechoma Hederacea var	.50	4.00
Hydrangea, 3 varieties	.50	4.00
Hoya	.50	4 00
Heliotrope	.50	4.00
Moonvine, white and blue	.50	4.00
Manettia Vine	.50	3.00
Nasturtium Cardinal Prince	.40	4.00
Primula Obconica	.50	3.00
Pontederia, Water Hyacinth	1.00	8.00
Smilax	.40	2.50
Vinca, 3-in	1.00	8.00
Verbenas	.40	3.00

I. N. KRAMER & SON,
CEDAR RAPIDS, IOWA.

Grow Swainsona.

The best and most profitable pure white flower grown. Takes the place of Roman hyacinths or lily of the valley, producing spikes of flowers from 4 to 6 inches long, in the greatest abundance the entire year—never out of bloom—lasting well when cut. 100 Swainsona will pay you three times as much as same space in best carnations. No florist should be without this most useful flower. After a trial it will be considered indispensable.

EASY TO GROW.

An exceptionally good and paying cut flower.

Strong young plants, $6.00 per 100.
Larger ones, $10.00 per 100.

FAUST & BRO.,
MERION STATION, P. R. R., PA.

Will exchange a few hundred for young Bride Roses.



Write for Wholesale List.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.
Mention American Florist.

The Water Garden.

Special and Hardy Water Lilies of all colors.
VICTORIA REGIA AND V. RANDI, EURYALE FEROX.
Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc., etc. Nymphæa Laydekeri rosea (awarded a Medal at World's Fair); most charming of all the HARDY Lilies; $2 50 each.
Other Columbian Novelties see catalogue.

WM. TRICKER & CO., Clifton, N. J.

5000 ALTERNANTHERA,

RED AND YELLOW.
Strong plants, from 2-inch pots, $2.00 per 100; $18.00 per 1000.

PHOENIX NURSERY COMPANY,
P. O. Box 1215. BLOOMINGTON, ILL.

Fresh and Handsome

ARE THE

CAPE FLOWERS

We have just Received.

Nothing finer has ever been on the market.

We offer extra selected, very large and handsome, per lb. $1.00; 10 lbs. $8.50
No. 1 quality, per lb. .75; 10 lbs. $6.50
Small flowers, perfectly white and good, per lb. $.50; 10 lbs. $4.50

FOR CASE LOTS,
Special prices on application.

All supplies for

WEDDING and COMMENCEMENT DECORATIONS

in full stock and rich assortment, and our facilities are such that we can supply you promptly and satisfactorily.

SEND IN YOUR JUNE ORDERS.

H. BAYERSDORFER & CO.,
56 N. 4th St.,
PHILADELPHIA, PA.

☞ WHOLESALE ONLY. . . .

MARSCHUETZ & CO.,

Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.

MEDAL AWARDED, World's Fair.

ERNST KAUFMANN & CO.,

Wholesale **FLORISTS' SUPPLIES**

No. 113 North 4th Street,
Send for catalogue. PHILADELPHIA, PA.



WHITE DOVES

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,
850 Montgomery St., Jersey City, N. J.

CHRYSANTHEMUM NIVEUS.

Now ready, from 2-inch Pots, strong plants, price, $1.50 per dozen; $10.00 per hundred.

DAILLEDOUZE BROS., Flatbush, L. I., N. Y.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

SMILAX.

Strong plants, last season's sowing, will begin to run at once. From 3-inch pots 75 cts. per dozen; $5.00 per 100; $45.00 per 1000.

CYPERUS ALTERNIFOLIUS.

3 1-2 inch pots, 75 cts. per dozen; $6.00 per 100.

LATANIA BORBONICA.

6-inch pots, strong, $9.00 per dozen.

NATHAN SMITH & SON,
ADRIAN, MICH.

30,000 VERBENAS. THE CHOICEST VARIETIES. PERFECTLY HEALTHY.
In bud and bloom, $2 50 per 100; $20 00 per 1000.

40,000 ROSES. OUR CHOICE SELECTED STOCK. READY FOR IMMEDIATE PLANTING.
Grown in 3-inch and 4-inch pots. Send for prices.

J. L. DILLON, Bloomsburg, Pa.

Baskets and Fern Dishes for Dinners, Decorations, Receptions, School Commencements, etc. in many pleasing styles, plain and fancy; compare our Fall trade list.

Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

Immortelles, White and all colors, $2.75 the dozen, natural yellow, $2.00; Cape flowers, best, $1.00 the lb., second size, 60c. the lb.; Wheat Sheaves, Wire Designs, Wire, Foil, Picks, Wax Paper, and all other Florists Supplies quoted in our Illustrated Trade List, mailed free.

Metal Designs in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage, Address

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**

PALMS—Latania, Corypha, Kentia, Cocos, all sizes from seedlings to big show plants.
AZALEAS—Best forcing varieties.
SWEET BAYS (*Laurus nobilis*)—standards and pyramids, finely shaped.
ARAUCARIA—excelsa, compacta, glauca, in all sizes; fine plants.
TUBEROUS BEGONIAS—In best varieties, large bulbs. Stock 100,000.
GLOXINIAS—Best French varieties, in separate colors.
ROSES—Low grafted and standards.
Lily of the Valley, extra strong German pips.
Prices very low on large quantities.

Fr. R. RICHTER, 126 E. 125th St., New York,
Importer & Sole Agent for Ed. Van Coppenolle, Alb Rigouts, and other Belgian and German growers.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.
. . . HARRISBURG, PA.

COLEUS.

20,000 COLEUS, VERSCHAFFELTII and GOLDEN BEDDER (true); 10,000 COLEUS, assorted, in 50 varieties, fine plants, pot grown, ready now, $20.00 per 1000. Cash with order.

C. F. FAIRFIELD, Florist.
SPRINGFIELD, MASS.

ROSES.

Including Everblooming, Hybrid Perpetual and Hardy Climbing, all our selection, but standard sorts, $15.00 per 1000; 2000 in one order for $25.00.

GERANIUMS.

Double, Single, Scented and Ivy, at $15.00 per 1000, all our selection. We have one of the finest assortments of the Bruant type to be found in this country, a due proportion of these will be included in each order.

200,000 Miscellaneous Plants.

Embracing Begonias, Chrysanthemums, Coleus, Hibiscus, Sanseviera, Jasmines, etc., $15.00 per 1000, all our selection.

Write for prices on any special sorts that you may want. Catalogues mailed on application.

ADDRESS **C. A. REESER,**
SPRINGFIELD, OHIO.

Prices Lower Than Ever.

Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to $5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

For general Japanese stock apply to

F. Gonzalez & Co.,
303 to 312 Wayne St., SAN FRANCISCO, CAL.

VIOLETS.

Marie Louise and Swanley White.

Perfectly healthy; very strongly rooted; soil and sand, $8 00 per 1000.

MELROSE SEED & FLORAL CO.,
32 S. Third Street, HARRISBURG, PA.

COLEUS.

	Per 100
Strong, 2-inch, in good variety	$2.00
VINCA major var.	2 00
Heliotrope, 2-inch, strong	2.50
Abutilon Eclipse	3.50
Lophospermum	2.50
Begonia Vernon, strong 2-inch	3.00

THOS. A. McBETH, Springfield, Ohio.

Cleveland.

The various florists who suffered damage by the recent hail storm estimated their losses as follows:

D. Charlesworth	$2,000
Archibald Campbell	200
Mrs. Jane Eadie	300
Gordon Gray	50
A. Graham & Son	50
Frank Hills	800
Robert Hughes	800
Harry C. Jaynes	500
Total	$4,700

There are others more or less damaged which will raise the total loss to nearly or quite $5,000 in round numbers. Private greenhouses will perhaps double this sum. It is safe to say it was the worst hail storm which has visited this city, in the memory of the writer, who has resided here 57 years. A. C. KENDEL.

Trees for City Use.

ED. AM. FLORIST: It is very pleasant to me to read the many favorable notices of my essay on trees for city use, which I read before the Pennsylvania Horticultural Society. In your issue of May 3rd, Mr. Keffer kindly refers to it, and to the list of trees mentioned by me he suggests the addition of the elm, box elder, American sycamore, hackberry and the thornless (yellow) locust. I would say of these that in our city the elm is so much troubled with insects that I could not recommend it. The yellow locust is too much troubled by borers to allow of its use, beautiful as it is. I have never seen the box elder used as a street tree. Doubtless the Western form of it, which is much more tree-like than our Eastern one, would be good for the purpose, and I will keep it in mind. The hackberry grows wild with us, but, somehow, it does not seem to be just what we want in a shade tree. There seems hardly foliage enough. The native sycamore is just as good a tree as the European species. The latter, however, is thought to be less liable to the fungus attack which so disfigures the native one in some situations.

JOSEPH MEEHAN.

Germantown, Phila.

Do not be deceived by Inferior Glazier Points, but use only

THE E. J. VAN REYPER "PERFECT" GLAZIER POINT

Manufactured by the

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THE DIRECTORY

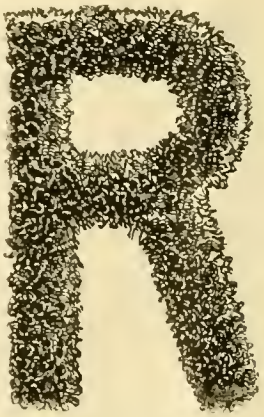
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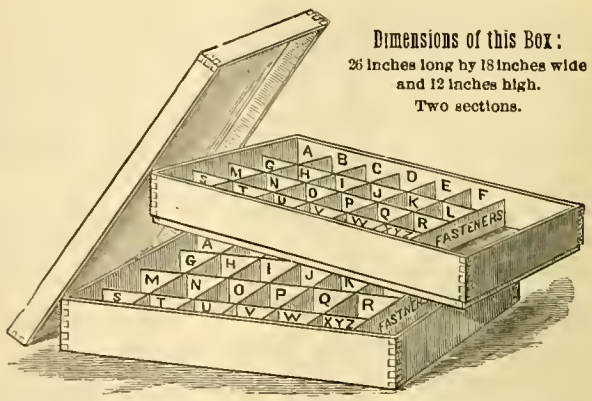
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This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

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Address all correspondence to 1 Music Hall Place.

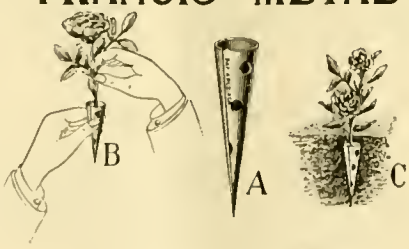
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PATENTED JULY 11th, 1893.

Latest Device for Stemming Cut Flowers without Toothpicks and Wire.

Will keep set pieces fresh longer, as flower stem is entered deep in the moist moss. Made from solid brass, will not rust, very convenient, saves valuable time and labor. You can stem flowers with these points in one-quarter of the time as when done with toothpicks. Will hold a pansy as well as a calla lily. Manufactured by the Novelty Point Works in 5 sizes, from ⅛ to ½ inch in diameter.

In Boxes of 1000 Points:

SIZE No. 1, (smallest) 60 cts. SIZE No. 3 80 cts.
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For sale by all leading Wholesale Seedsmen and Dealers in Florists' Supplies. Samples of all five sizes for trial sent by mail, postpaid, on receipt of 10 cents. Address

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New Catalogue (No. 4) containing over 1000 Ornamental Cuts for Florists' use, such as envelopes, letter-heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upward. Price of Catalogue 25c. (deducted from $1.00 order).

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20 CANE STAKES FOR 1 CENT

A foot in length by simply using a sharp saw on a bundle of our best.

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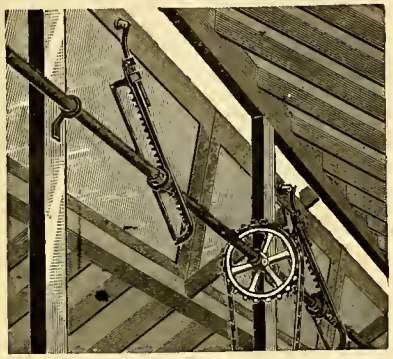
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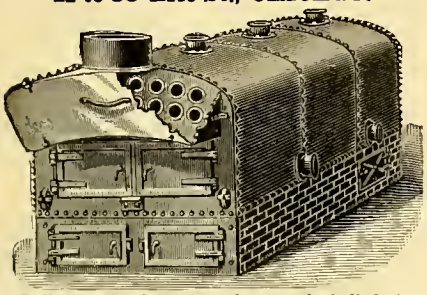
Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



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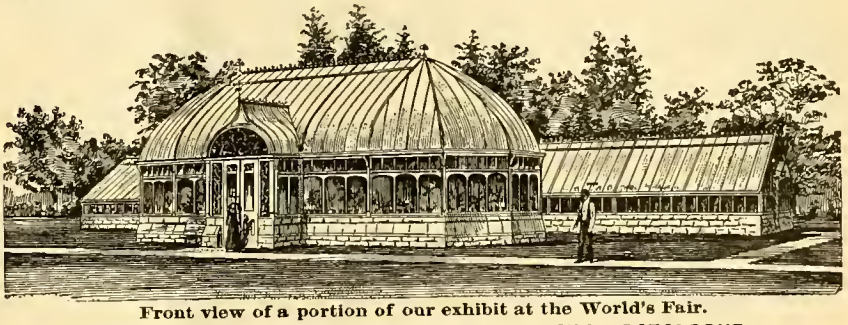
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Manufacturers of
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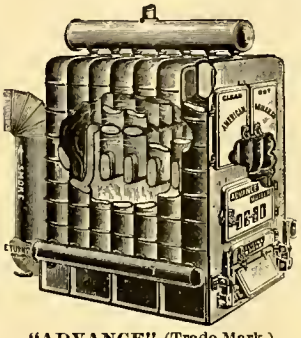
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Write for Illustrated Catalogue.
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Horticultural Architects and Builders,
STEAM AND HOT WATER HEATING ENGINEERS.
☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.
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ARE YOU interested in the best modern system of heating your Greenhouse. If so write to us for Catalogues. We make a specialty of greenhouse heating.

18 TYPES. 174 SIZES.

FOR STEAM AND HOT WATER.
ADAPTED TO ALL KINDS OF FUEL.

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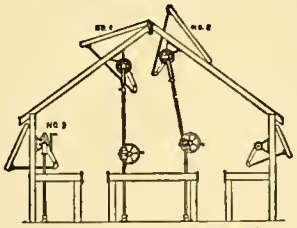
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The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

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FLORISTS WIRE DESIGNS
MANUFACTURED BY
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Send orders for . . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
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HIGHEST AWARD AT WORLD'S COLUMBIAN EXPOSITION FOR SUPERIOR DESIGNING AND ENGRAVING
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HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN
DO IT NOW.
JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J

Questions About Heating.

Replying to the inquiry as to how large a tubular boiler would be needed for heating eight houses each 20x100 and 11 feet high, to be used for forcing roses in the latitude of Chicago, would say that to maintain a temperature of 55° to 60° during coldest weather ten lines of 1¼-inch pipe would be required in each house; this, with the surface in the mains and the allowance for friction, etc., would make 555 square feet of heating surface in each house, or 4440 square feet in the eight houses. To operate this amount of surface the boiler would need to contain about 700 square feet of heating surface and should have 20 feet of grate surface, which could best be provided for in a boiler 15 feet long, 54 inches in diameter, containing 64 3-inch tubes, which would be 60 horse-power.

In reply to the question propounded by Mr. Geo. Ellison of Ft. Worth, Texas, would say that probably the best method of piping a greenhouse where the boiler is placed on the same level with the house is to carry the main flow pipe upward from the boiler to a level as near the top of the house as convenient, relieving it at that point with an expansion tank, and from there carry one or more pipes through the house above the benches, dropping all the way to the farthest end of the house; there divide and return underneath the benches, continuing to drop until the boiler is reached, where the pipes can raise if necessary to enter the return inlet of boiler. At the lowest point in the apparatus there should be a valve to draw off the water in the system should it be necessary at any time to do so. The pipes running along the house above the benches can be suspended from the rafters or sash bars and covered with a non-conduction covering if the heat from same should be objectionable.

LINCOLN PIERSON,
Sec'y Lord & Burnham Co.

Our Illustrations.

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Long years of labor in this field, together with some acquaintance with photography, enables me to appreciate very fully the excellence of the work you are now doing. As florist printer, with intimate knowledge of the difficulties of reproduction you are so successfully surmounting, I believe I am more than ordinarily able to judge the result.

J. HORACE MCFARLAND.

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LAWN VASES.

For cash with order.

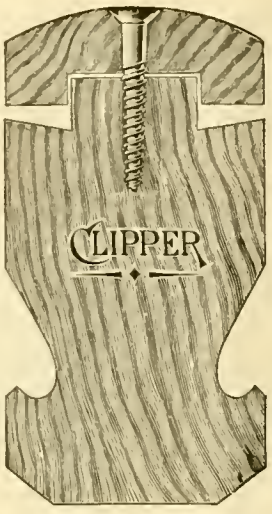
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With 11-inch base 1.50 "
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136 and 138 West 28th Street, New York City.

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Sash Bars

ARE ALWAYS SATISFACTORY.

This cut represents our Improved Clipper Bar for Butted Glass roof. **No Putty required.**

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest **CLEAR CYPRESS** used.

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"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

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Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

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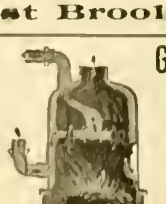
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Our new **Pottery**, new **Machinery**, the very **best Clay** in the **Country**, and our new **Patent Kilns**, all combined, make the **best Standard Pot in the market.** Send for price list.

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MYERS & CO.
1518 & 1520 S. 8th St.,
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Send for catalogue and price list.



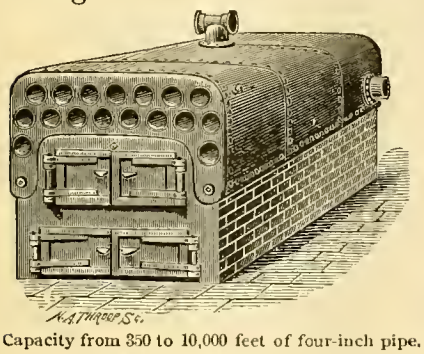
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ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers.



Capacity from 350 to 10,000 feet of four-inch pipe.

SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,

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TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

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are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

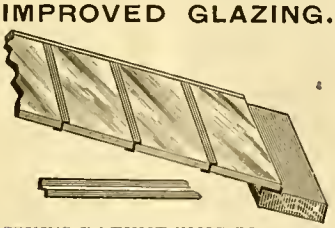
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THE CHAMPION Automatic Ventilator.

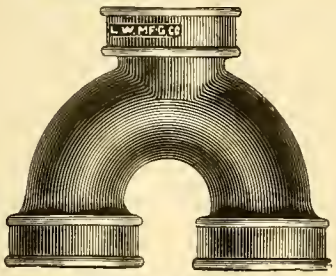
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Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST.

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

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FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.

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Horticultural Architects and Hot Water Engineers

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SASH LIFTER AND HINGES

will do the work and cost you less than any other. Send your name and address and we will mail you description and price.

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Kills Mildew and Fungus Growth. What does?

GRAPE DUST.

Sold by Seedsmen.

Crabb & Hunter,

Florists & Fuel Oil Plant Contractors,

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GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimates. Satisfaction Guaranteed

REED GLASS CO.,

65 Warren Street, and 46, 48 & 50 College Place, NEW YORK CITY.

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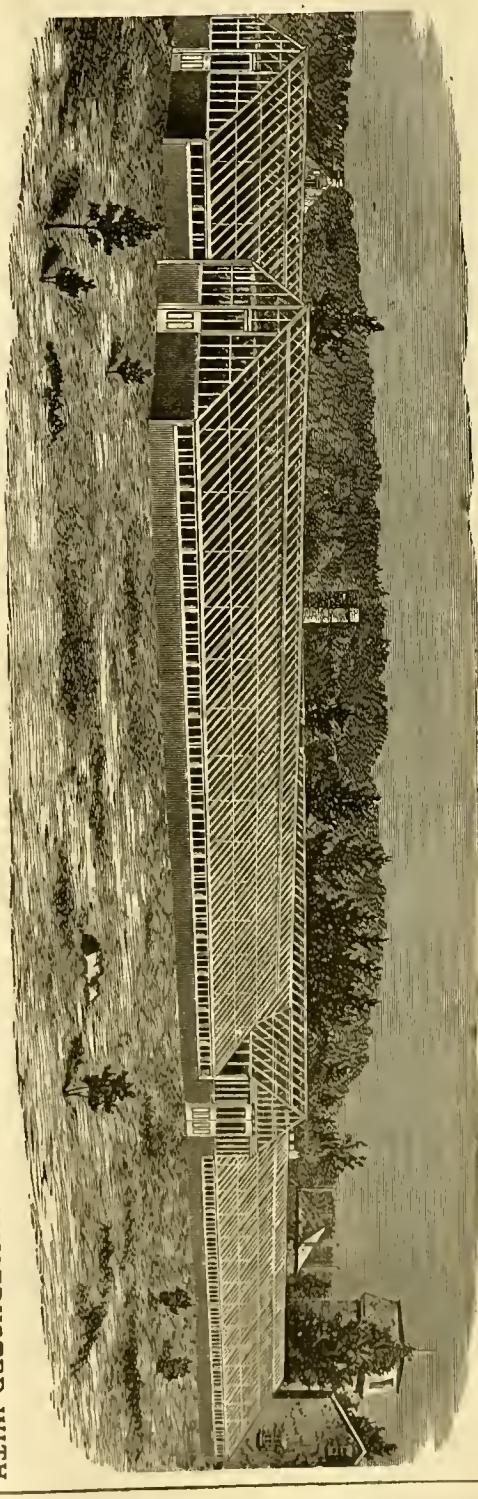
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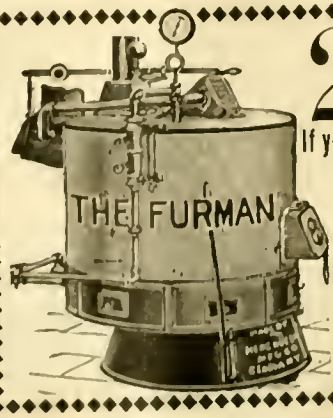
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THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

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The Tenth Annual Meeting

OF THE

Society of American Florists

WILL BE HELD AT

ATLANTIC CITY, N. J.,

AUGUST 21, 22, 23 & 24, 1894.

Members may remit the annual dues ($3 00) to the secretary prior to the meeting, thus avoiding the crowd and relieving the officers on the opening day. Badge for 1894 will be sent by mail to those who remit in advance of the meeting.

Intending members can obtain any information wanted by addressing the secretary.

OFFICERS:

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

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SANDUSKY, O.—The Sandusky Floral Co. recently sold 16,000 plants to the B. & O. R. R. for planting at the railway stations.



Coming Exhibitions.

BOSTON, June 20-21. Rose and strawberry exhibition Mass. Hort. Society.

BOSTON, Sept. 5-6. Annual exhibition of plants and flowers Mass. Hort. Society.

CHICAGO, Nov. 3-9. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.

NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex MacLellan, Sec'y, Ruggles Ave.

BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.

PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.

ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y. 4101 Pennsylvania Ave.

INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.

PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L.B. 375, So. Denver, Colo.

WORCESTER, MASS., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.

TORONTO, ONT., Nov.——. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.

MONTREAL, Nov. ——. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.

PROVIDENCE, R. I., Nov. ——. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.

SPRINGFIELD, MASS., Nov. ——. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 John St.

MILWAUKEE, WIS., Nov. ——. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.

HAMILTON, ONT., Nov. ——. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.

Seasonable Notes.

The spring bedding is now pretty well advanced, and in a great many localities almost finished, so the greenhouses may be cleaned out and got ready for planting the chrysanthemums. And if there is some bedding stock left in, move it out, for it will be far better off in frames than in the houses.

After removing the old soil, look the benches over carefully; and if they are rotten *tear them down and build anew.* Don't throw your weight or spring upon them to see if they will bear you without breaking down, and if they are not wrecked say "I guess they'll last another year," but remove all the rotten wood now. It may mean a little expense, and you can't perhaps afford it, but the loss of a crop is far worse than the output of a few dollars, for benches that are what appear to be only partly rotten are liable to break down and let the plants and soil through; but anyway rotten wood is a perfect harbor for vermin of all kinds, especially sow bugs or wood lice. We have been told by some very good growers that this little chap does no injury, but we, to our sorrow, know different, for they nearly ruined a fine bench of Ivory for us last fall, and we caught them in the act. They would climb up the stem to the flower and eat off the lower petals. I saw an item the other day from Mr. A. W. Fox of Mt. Pleasant, Penn., saying "D. Maurer & Son's Cockroach Exterminator" would rid the benches of this little pest; I could not procure that make, but tried another, "Barnard's," which the druggist of course informed me was "just as good," and the bugs paid no attention to it whatever; but it is an inexpensive experiment, and as soon as I can procure the make advised I intend to try it.

Build your benches so that they will hold about four inches of compost; we have found this plenty deep enough to carry the plants through the season, but they will of course require top dressing and liquid manuring and careful attention throughout the hot days of late summer.

As soon as the cuttings are rooted take them out of the propagating bench, and on no account allow them to make any appreciable growth in the sand, for wood grown in that way is very weak and hardens very quickly later if allowed to dry ever so little. It is the usual custom, we believe, to pot the cuttings into small pots, but for the last three or four years we have planted them in flats, in the same manner we do our carnations; that is, if they are going to be planted out in the benches within six weeks. It would be a dangerous experiment to try to carry them much longer than that in shallow flats, unless they were planted three or four inches apart. We prefer this to potting, for they are much more easily handled, grow stronger, do not dry out so quickly and a man can set out as many plants again from flats as he can from small pots.

Societies intending to hold exhibitions next fall have nearly all issued their schedule of prizes (and those that have not should do so at once), and you have selected the varieties that you will need for trade purposes, so you are able to map out what you are going to grow. Plan out now in your mind if you can, but what is far better, on paper, just how you are going to set your plants in the benches, for an hour in the evening spent in doing this will save you lots of delay and trouble when setting the plants. I

the benches run east and west plant the tallest growing varieties, such as Pres. W. R. Smith and Harry Balsley, in the back row and grade the rows to the front of the bench according to their heights; or you can set all of a variety together in rows across the bench, which is usually preferable, for the plants are not as apt to be mixed or run together when you select the stock plants in the fall. But, be sure, if you plant the latter way, not to get a dwarf between two taller varieties, or you will draw the dwarfer one so that the bloom will be small and the stem very weak. In benches running north and south plant the taller varieties at the north end of the house. If you are intending to grow any quantity of Ivory (which you ought if you are not, for it has not yet been equalled as a semi-early white), plant them in a bench by themselves, for they will stand closer planting, and it is good economy to grow them on what is called the Japanese system, single stem and single flower.

ELIJAH A. WOOD.

West Newton, Mass.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

About this time of year almost every carnation grower is thinking of adding to his glass, quite a number are starting in new, and a few remarks about houses may not be amiss. There are almost as many different ideas as to the proper house for carnations as there are growers. I do not claim that mine are right, but my houses are turning me out fine carnations, and they at least are not wholly bad.

For colored sorts the best houses with me are those running north and south. These are built on the ridge and furrow plan and they are nine feet wide, with a two foot path under each gutter plate; this gives a good bed in the center seven feet wide and away from all drip and shade from the sides. You will of course understand that there are no partitions between these houses. The paths are dug out about eighteen inches to two feet and bricked up; resting on these bricks are uprights that support a cross piece which supports the gutter; these are all iron. The uprights are best made of inch and a quarter pipe and the cross piece of solid iron; they will then stand as long as the roof lasts, and make a very neat interior. Houses of this width do not need any purlins, as the roof holds itself easily. Six or eight houses of this style in a block make a first-class arrangement, as their being all open insures a good circulation of air all through them, which contributes greatly to the health of the plants. It is not necessary to go into the details of building, but I would suggest that the gutters be made as narrow as practicable, so that they do not cast much shade. The material should all be good. Use first quality of double thick glass and put the ventilators on the west side of the house, a continuous ventilator running the whole length of the house and opening at the ridge. Ventilation and sunlight are very important features in carnation culture.

I am not prepared with data to say whether or not those houses will make as many flowers from the same variety as the three quarter span houses will, but there is a very slight difference, if any, either way, and the plants seem to be healthier and require a little less labor in such houses than they are and do in the three quarter span houses.

Anyone building but one or two houses will do better to select the three-quarter span, as such houses as above described are not so good unless you have a block of them. The three-quarter span house has been written up so often that it is not necessary to make any comments on the building of it. Quite a number of the growers are favoring the long span to the north method of building these houses, which enables them to be built together without much disadvantage. In these houses I follow the same plan except that I build mine all with the long side to the south and each house twenty feet away from the other. In place of having a bed or bench along the south side we put a two-foot path along that side, and give the carnations the benefit of the best part of the house in the center. These houses should have ventilation on the sides as well as on the top, so that when the warm spring days come one has plenty of it.

In building a greenhouse you do not want to be too economical, as you will be more than likely to grow cheap flowers in cheap houses, and cheap flowers are a nuisance everywhere, to the man that grows them, as well as to the man who sells them. If you cannot put up a good house and grow good flowers you will be far better off a year from now to have gone to work for some one at a fair salary. It takes but a glance over the market reports to see that competition is going to be livelier every year, and it is well to remember that even the market reports (that is the quotations of prices) are as a rule higher than the actual returns to the grower.

On account of the heavy rains we have been getting, through this state at least, carnations are growing very fast, and they will need watching to see that they do not suffer for want of topping, and that they are kept well cultivated and clean.

A. M. HERR.



ULRICH BRUNNER BUD AFFECTED BY THE NEW PEST



Another Pest.

Several forcers of hybrid roses have been experiencing considerable trouble and loss from damage caused by the larva of a winged midge which is as yet unfamiliar to entomologists. Our illustration shows a bud of Ulrich Brunner as it appears when infested. The grub is very minute but may be seen by close examination in the under side of the deformed bud while it is in a very young state, but by the time it has attained the size of a pea the grub disappears. Those who have been troubled with the pest say that it never makes its appearance except on late forced hybrids, that is those that should bloom in April and May. The bud generally turns yellow and drops off, but in the case of very strong growing



MILTONIA VEXILLARIA VAR. FAIRY QUEEN.

varieties such as Magna Charta it sometimes attains a sort of one sided half developed bloom, but which is useless as a cut flower. Prof. Riley of the Division of Entomology of the U. S. Department of Agriculture, to whom specimens of the infested buds have been submitted, says that the adult form of the insect is yet unknown to entomologists, and that no precisely similiar case has ever been called to his attention. His advice is to burn the infested buds that contain the larvæ and also suggests that a top dressing of Kainnit applied to the soil about the infested buds would destroy the maggots. If any of our readers should notice this damage later during the present or next year the entomologist will consider it a favor if they will send specimens for his examination.



Miltonia vexillaria var. Fairy Queen.

The illustration does not convey any idea of the true beauty of this orchid. Many varieties have cropped up these past few years from importations; including the brilliant colored radiata, the bright Augusta Victoria, the immense forms stupenda and Joseph Godseff, the choice coronna marked Amesiana and the several white forms, alba and Cobbiana, all beautiful; but the subject under notice, Fairy Queen, is purity itself.

It was introduced by Sander & Co., and was sold to Mr. Ames. A choice piece three years ago having two small bulbs, it has now five flowering growths and carried about fifty flowers. The flowers are medium, the lip absolutely white, the crest yellow with fine radiating lines of yellow spreading through the lip, the sepals white, petals faintly flushed pink on opening but the pink disappears. Two years ago the flowers did not have a particle of coloring in petals.

We grew the plant during the time it was developing its flowers in a shady and warmer part of the cattleya house, since which time we have continually grown it in the odontoglossum house at the more exposed end. The temperature during winter was, night 50° to 55°, day 58° to 60°. I find all vexillariums grow well under these conditions, always giving plenty of atmospheric moisture and ventilating freely on favorable occasions. We drench them overhead and they enjoy it. We are not troubled with yellow thrips; we have them sponged thoroughly probably three times a year. Our season of vexillariums extends from early April until September. After the larger type has finished flowering the smaller and higher colored type rabella follows and they come at a season when orchid flowers are scarce.

WM. ROBINSON.

North Easton, Mass.

Forcing Prunus Pissardi.

It is probable that, now it has proved so amenable to early forcing, it will become as popular in early spring as in the open air in summer. It is a lovely shrub with beautiful foliage of a ruddy tinge, but not so deep as they will become later on. The flowers are produced in great profusion, and shaped as other cherry blossoms. They are of a delicate blush white. The flowers resemble those of Prunus cerasifera, of which no doubt it is a variety. I understand this variety does not come true from seed, as green-leaved seedlings have been produced.

A. J. E.

DR. WM. TRELEASE has just issued a brief but comprehensive monograph on Leitneria Floridana, an interesting but little known tree chiefly found in the Florida swamps. Like all the publications of the Missouri Botanical Garden it is fully illustrated. It will be reprinted in the sixth annual report.

Seasonable Hints.

I have frequently endeavored to remind my friends in the trade not to let out their fires until the 1st of June, or even later should an extraordinarily cool wet spell occur, as it has this year. And this is good advice for any year. From my observations locally I have seen the loss of many thousands of fine geraniums, trusses and leaves rotting and turning yellow, roses mildewing, and even carnations standing still, coleus losing all their bright coloring, for which alone they are attractive, all this for lack of a little fuel, and care. I am not saying that carnations have needed fire heat for seven or eight weeks, but the last week of May, just when the flowers paid well, the temperature of the houses was 40° to 45°. A ton of coal then would have paid its cost many times over.

You will be in the rush of business now, and very liable to neglect a few important operations. Don't forget the poinsettias. Those you started into growth early in April will now have made growths four to six inches long. Find time to cut off the young shoots, and leave enough of the young growth on the old plant to break and make a decent plant. The young growths with two or three joints will, if put in the sand and kept continually moist, and never allowed to wilt, root in about twenty days and if potted and grown along make the best of plants for next Christmas trade. After being potted off from the sand and well rooted in small pots they should have full exposure to the sun either inside or out. I keep the young plants always under glass. The old plants and plants struck from the dormant wood in April do better plunged outside on a dry bottom, and remain there until the end of September, or until danger of frost.

There should be no delay in getting your azaleas out of doors, either plunged in a frame on some material such as tan bark, spent hops, or coal ashes, if you have nothing better. Large growers of azaleas plant them out in some good soil, or soil that is thoroughly friable, and cover the surface of the ground with hay or some other mulching; whichever you do watch them closely during the hottest time, and never let them suffer from extreme dryness. Don't spare the hose on them, a good skillful syringing will help wonderfully to keep down spider, thrips and mealy bug. Try and handle a hose as expertly as some of you do a pen, realize that all the pests which succumb to cold water are on the under side of the leaf, and the spray must be directed to that part of the plant. Some may wonder innocently why these little pests (to us) should always be underneath the leaf. It is simply because they could not exist on top; the rains would have exterminated the races long before florists began to think of anti-pests. In fact they are like all other animate nature, of whatever kind or condition, either animal or vegetable, they did not find a place or surroundings especially made for them, but suited themselves to their surroundings, and so survived.

Hydrangeas that were propagated in February, and are now in 2½ or 3 inch pots should be planted out at once. A good rich soil that is not too heavy will do. They should be stopped once before planting, or soon after planting. I have been very successful the past two years by planting them in a violet house about this time of year. There was 5 inches of soil in which the violets had been growing, and with the addition of a good liberal allowance of bone meal the hydrangeas did finely. In the house you have full control of them, and can keep them well supplied with water and syringe. Young plants from 2½-inch pots now should give you fine plants in 6-inch pots with 4 and 5-inch large flowers by next May.

It is not too early to remind you to plant out a few of everything you need for future stock. A few plants will be sufficient of many kinds, but get them out and growing. Many retail greenhouse men can ornament their grounds with the very stock that they want for next year, and it behooves them to do so, for if they make handsome and attractive beds they will have advertised the plant they want to sell, and will have plenty of it to sell. Carpet bedding in our locality seems sadly on the wane; it's had its day, although beautiful and in good taste in some places. Don't place too much dependence on the little needs but plant out plenty of good geraniums for next fall's propagation, for old as they are they have a firmer grip on the public favor than ever.

Another plant that is greatly in favor, and without doubt will be for some years is the Crozy canna in all its wonderful variety. Buy them now for your stock; a plant bought now and planted in rich soil is good (with proper management) to make half a dozen for next spring's sale. This is much cheaper than buying the half dozen next spring.

When you plant out a permanent bed of roses, or if you don't do that select some end of a house for a few plants of Swainsona galegifolia alba. It is one of the most useful plants for the general florist that has been brought to notice lately. It is just like a small sweet pea (not very small) and is continually in flower. The flowers last well when cut. It should be tied up or supported to a pillar or post, but cannot be called a climber. A temperature of 45° to 50° at night will suit it well, and it likes and needs a good rich soil; a good turfy loam with a fourth or fifth of rotten manure will grow it, but there is no secret in growing it, only get a few plants and plant them out where they can remain a year or two, without being disturbed. You will find it invaluable. WM. SCOTT.

Arrangement of Flowers.

VI.

DRESS BOUQUETS.

One of the most popular uses of flowers is for personal adornment. As is but natural the ladies are the largest buyers of flowers to be so used, and not only does she use by far the largest part of the material for such purposes, but nine times out of ten will she also prefer to be her own artist in the arrangement. There is no denying the fact that the average woman is a better judge of color combination than the average florist, at least so far as harmony in color of flowers and dress goods is concerned. Of course there are exceptions to most rules. Not every woman dresses in the best taste, but in a general way you may trust a woman to select the proper thing. Now if our dealings were altogether with the fair sex we would find little to worry about except that you might be expected to trot out your stock of several hundred roses and other material, wherefrom (if satisfactory) to select 3 or 4 buds; and in some cases, according to directions, you might also be commissioned (subject to alterations) to arrange the same. But fortunately, or unfortunately, just as you take it, here is the masculine member of society to deal with. As a rule you find him a most liberal being, especially before he is married. He will come and throw down a five dollar note with the direction to fix something to wear, say a dozen or two of red roses. "What colored dress is the lady to wear?" Bless your soul, that simple matter has never entered his head. He will be able to describe the lady's eyes, and—yes, surely his lady has a lovely dark complexion and you know that red roses ought to be very becoming—why, certainly, he is sure of it now, for didn't she wear a red rose in her hair the other night, and wasn't it perfectly stunning? If you are a wise man or woman and value your reputation you will quietly drop your five dollar note in your drawer and send the money's worth of loose roses in a box and substitute one-half of different shades, and trust to the lady to select the proper color. She will most likely use but a small portion of them, and enjoy the rest by placing them in a vase in her room. And here comes the married man in a great rush. He has been commissioned by his better half to order some kind of flower, blessed if he hasn't forgotten the particular kind. With his mind, as is most likely, on the wheat pit or the corner on pork, what else could you expect? Dress? Well, he has a fleeting recollection that the bill for the same was some $200, but such a small matter as color! But stop! He recollects it isn't black and it isn't red nor blue, green or yellow but something between all of them. So there you have it. Let a man alone for describing the color of a dress. But enough! We only wish to emphasize the importance of color harmony in flowers and dress. It is not our purpose at present to go into this subject of color combination at length, reserving this fruitful topic for a future article.

Let us now consider the arrangement of the various styles. As fashion continually changes in the style of dresses, so also in a less degree there are changes in the forms and size of dress bouquets. Some years ago corsage and belt bouquets of enormous size were considered the correct thing. It was no uncommon sight in those times to see a frail little damsel fairly staggering along on the streets under the weight of a dozen or two of Am. Beauty roses. From a business point of view we may regret that at the present day fashion has gone almost to the other extreme, but from the standpoint of good taste we must condemn the ridiculous practice of wearing those enormous bunches, often made of the largest and coarsest flowers to be found, which gave the wearer the appearance of a walking flower garden.

The size of the bunch worn at present varies of course in accordance to the taste of the wearer, although we seldom see a bunch now-a-days with more than a dozen of the smallest roses or proportionately less of the larger varieties. The large roses, such as Beauties and hybrids, also peonies, chrysanthemums and other large forms of flowers, are generally worn as single specimens, or at least not more than 2 or 3 in a cluster, which are not subject in a general way to any particular arrangement. Of the smaller varieties in roses let us consider several different styles and forms, such as are in demand at present.

Our first illustration shows a style generally termed "corsage," although the word corsage is often applied to all the other forms of dress bouquets. A typical arrangement in this class is the one shown on the right hand side of our picture made in long spray form. This is made of



ILLUSTRATION NO. 1.

ARRANGEMENT OF FLOWERS.

Bridesmaid roses and adiantum fronds, but of course the color or variety of our material must be varied to be in harmony with our object. The manner of arrangement is so simple that it can be seen by a glance and very little description is necessary. First of all be careful to break off all the thorns from the rose stems, as there is great danger of tearing the dress with them, not to speak of the annoyance of pricking delicate fingers in handling them. If these arrangements, as is most likely, are to be worn at receptious or balls where there is often a crush with danger of having every bud broken off in the first five minutes, it is best to run a wire through the calyx of the rose and wind around the stem in the manner shown in our article on stemming. In such a bouquet, however, it is almost impossible to arrange the flowers so that the wire will not show more or less, particularly after being worn a little while, when some of the flowers become disarranged, and therefore is objectionable. For tying these bouquets we prefer thread or silkaline to wire as the latter, if the flowers are wet, is very apt to injure the dress. These remarks apply to all the other rose arrangements as well, as all of them differ only in form.

The left hand spray, as seen on our first plate, is composed of Mme. Pierre Guillot roses and adiantum.

The second plate shows a bunch of La France and adiantum on the right, and on the left a cluster of three Kaiserin roses with buds and foliage and no additional green.

The third illustration is of a bunch of Tidal Wave carnations and Asparagus plumosus, one of valley and its own foliage, and one of Nellie Jaynes sweet peas and adiantum.

But as the ladies' dress bouquet has grown smaller and more modest so in the same degree has the gentleman's boutonniere asserted itself until it has become of a size to be a formidable rival to the former. For swell occasions a modest rose bud or carnation isn't in it any more. Happy is the dude in the chrysanthemum season, for then he can indulge to his heart's content (if he has the price) by purchasing a bloom as large as a good sized saucer. Unfortunately the chrysanthemum is not always in season, but the enterprising florist is equal to any emergency and he is ready to manufacture out of carnations (white for evening wear) a rosette as large as a cabbage if so desired. Of all the abominations that have ever appeared on the horizon of fashion this is about the worst. We have often thought that if we were able to put our eye on the fellow who invented this dainty arrangement we should be tempted to shy a brick at his head.

As to the "arrangement," take a number of good sized carnations from half to a full dozen or more, strip off the calyx and pull out the seed pod, then wire the remaining leaves together and form the whole into a ball, the larger the better, and there you are, right in the swim!

Another style much in favor in the winter season is a similar arrangement of violets, anywhere from 25 to 100 in the bunch.

We must however acknowledge that the majority of men have better sense and taste. For those we recommend a single bud or half blown rose with a leaf behind it, or a carnation without any green, a dozen blooms of violets with a leaf or two of their own foliage, or a couple of sprays of valley, also with a small leaf at the back.

Sweet Peas in California.

I have just returned from a visit to the California seed growers. Although I was especially invited by C. C. Morse & Co. of Santa Clara, whose acreage puts them at the head of the list, and spent my time chiefly with them, I was warmly welcomed by the Sunset Seed Co. at Menlo Park, Menlo Park Nurseries of M. Lynch, J. H. Kimberlin of Santa Clara, and F. E. Grey of Alhambra. The Morse company and Mr. Kimberlin have both been extensive vegetable seed growers for years, the former having to-day over twelve hundred acres in vegetable seed, the latter being best known as a grower of onion seed. The other three are practically in flowers and flower seed. The Sunset Seed Co. are an outgrowth of Timothy Hopkins' beautiful estate and park at Menlo Park, and Mr. Lynch, formerly Mr. Hopkins' gardener, has now gone by himself extensively into cut flowers, and the growing of the particular seed of which I want to write. F. E. Grey at Alhambra has taken into his employ Mr. Haettel, who was a year ago in the business for himself.

My visit was in the general interest of sweet peas, the seed of which has now become an important California product. Sixty tons of the one hundred needed in this country will this year be grown by these five named growers. With your permission I want to write three chapters on this visit, in one of them discussing the present status of growing the seed, and points involved in this new American seed product; in another discussing the list of varieties, and showing how now the time is come to cut it down from about seventy to fifty named sorts with great advantage all around. The third chapter I will hastily write first to get it to you in time for the Seedsman's Convention, and make it simply a brief report of what I saw.

I have both come away very enthusiastic myself about the way they are taking hold of this branch of seed growing, and have left them in an equally enthusiastic condition. The day I left, May 24, a special meeting of the California State Floral Society was held at San Francisco, at which, besides a good attendance of the members, the four largest growers of seed were present. A magnificent exhibit of the finest varieties covered the tables, and I went over such points in their history and development as were interesting and important. While I have spoken before several large Eastern societies on the sweet pea I have never spoken under circumstances of more enthusiasm, or where I felt more good would come of it than right there with the Menlo Park and Santa Clara growers closely observing each point. Each grower represented from forty to two hundred acres of the different varieties. The latest varieties were there shown in liberal bunches, and blossoms of a size that cannot be seen outside of California. The growers there saw the true and finest type of each, and saw the standard to which their seed stock must be brought, and the types to which they must rogue every acre. It was a simple matter to correct what few mistakes they had been making in the names

of the varieties. And in my visit to them all I could see that the conditions of soil and climate are about as perfect as can be for the best sweet pea seed. The soil is of course deep and rich, and of that heavy texture favorable to this flower. I went again and again over the Morse seed ranches, one of them having thirteen hundred acres solid of different kinds of seed. To stand on a water tank and look over its immense blanket of color, every square rod occupied and worked at its best, blocked out with acres of this and acres of that, squads of Chinamen busy as bees, and doing exactly as they are told—a single seed ranch requiring 40,000 bushels of onions to be set for seed, also cabbage seed, lettuce seed, spinach seed, carrot seed, etc., so that if you could look over their orders from the big seed houses in Detroit and Philadelphia you would see in one man's order 15,000 pounds of this, and 12,000 pounds of that! And now the experimental stage of growing sweet pea seed is past with them. Soil being all right, they have experimented with the season. This year's crop was planted in December, but the next crop will probably go in as early as October, for this will bring the vines along so that they will be ready to bloom as soon as the rains cease, which will be about May 1, and they will seed early, the earlier the better. The coolness of the California nights is very favorable for this flower. They are not cramped for room, and therefore they plant in rows from three to four feet wide, with two seeds dropped every fifteen inches or so like corn in a hill. With a reputation for the most reliable vegetable seeds, they are now more anxious to supply sweet peas at their very best than the seed house or the floral public are to get them.

In my next chapter I want to stand impartially between the seedsman and the grower, plainly setting forth, what I have already said to the growers in person, the next hundred tons of sweet peas should be in quality and on the other hand setting before the seedsman his part of the problem, in which he can help the grower, or in other words suggesting how the seedsman can discourage the efforts that I know the growers are disposed to make in improving their seed stock and in severe roguing, by imagining that the large acreage means another drop on bottom prices, when it may mean, what I have seen on this visit, a roguing out of half the vines to make the stock pure. We are going to drop the common sweet peas out, and the improved sorts are now brought up to such form and size and delicate colorings that every year now will demand a severity of roguing that heretofore has been unknown. These fine flowers do not hold themselves up to their high types, but our growers will hold them up if our seedsmen will fairly consider the situation and discuss prices not according to the apparent average, but according to the high class of work which will be put on them. This year's California crop will send out a good deal of cheap seed, for it will take another year to get sufficient stocks of some of the best; but the growers I have visited are ready for thorough work, with expert hands to do it.

I for one have no patience with the idea that sweet peas are just now a "fad;" cheap seed will soon make the "fad" a short-lived one. But a permanent era of thorough work on this flower is at hand. A growing trade of the better class is rapidly showing up. I can promise every lover of this flower the finest seeds of the finest sorts, if all together, amateur and florist and seedsman, will show their appreciation of the work which the growers are now ready to put on it.

I do not want to convey the impression that the entire acreage of all the growers is this year in all respects satisfactory. Here and there they have unwittingly planted a deteriorated seed stock, not knowing how rapidly the highly developed varieties run back by the inbreeding which is peculiar to the sweet pea. It is an advantage for some flowers to cross fertilize naturally with each other, for, while it produces a mixed blood, it doubtless gives continual vigor to the plant stock; but left to itself the sweet pea is nothing but a natural inbreeder, each blossom being independent and shedding its pollen at a very early stage. To the grower this means that he must take the greatest pains in saving his seed stock. Now and then I saw an acre and asked "What was this planted for?" "It was sent by so and so as Purple Prince to be grown for them." But it had been allowed to run back till it had ceased to be Purple Prince. The Countess of Radnor, so delicate in its beautiful lavender shade, gravitates rapidly back to a reddish mauve and then comes out like its inferior parent stock, The Queen. Eckford has been ten and fifteen years in bringing his beautiful varieties up to their magnificent type; but if left to inbreed they are lost before we know it. If a seed house sends its own stock to be grown that is their lookout. If the seed house wants a guarantee on the grower's stock they must find out whether the grower has an intelligent idea of the nature of this flower and has sharp eyes and expert hands directing this branch of seed growing. The growers now are alive to the situation. If anybody wants such varieties as Painted Lady, Light Blue and Purple, Dark Striped Purple, Crown Princess of Prussia, Common White, Common Scarlet, etc., they can be grown by the ton with as little care as vetches, for they are simply old original sorts with the persistent plebeian vigor of undeveloped flowers. They are the weeds of the improved sweet pea. I came away with the assurance that the California growers are now ready to grow from the truest seed stock and supply us with the best varieties, and their disinterested cordiality is such that nobody need "kick" if for another year everything is not just right, for they will strain every nerve to make every pound of seed hereafter what it should be. I anticipate the most pleasant and uninterrupted correspondence with them discussing every variety, which on my part will be simply a disinterested enthusiasm for this flower.

A word in closing about the two new American varieties, the Emily Henderson and the American Belle. There will be some complaint again this year about the germinating quality of the former. I find on returning home that of the several plantings of different stocks of this variety it still germinates poorly. I saw the same thing in California. But I still have great faith in it. I saw acres of it that were in splendid condition, and that left no question of its merit as a vigorous white. I think in a year or two it will do as well as any variety. It is impossible to see why the seed of it that is now being grown does not promise as well as any other.

The American Belle sported last year, but the seed this year, much to the surprise of the growers, produces a very fine strain of the Blanche Ferry. Such vines as do come true to the American Belle do so from the very start, but only a few of them. It will require more time to fix the new type so as to hold. California bids fair to give us some fine new sorts, but they will hereafter go slower.

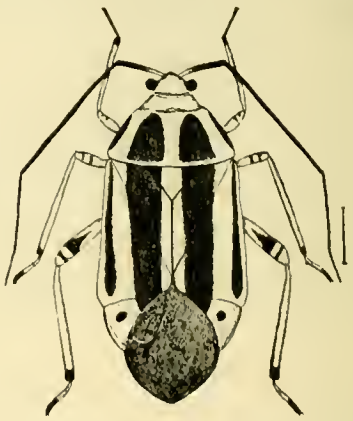
W. T. HUTCHINS.

A New Greenhouse Pest.

The last of April this spring we received some insects from the superintendent of the grounds of the Detroit Water Works, with the following letter accompanying them.

"DEAR SIR: Early last season we were very much troubled with insects like the enclosed. They attacked geraniums first and we came very near losing our entire stock, although by liberal use of fir-tree oil and tobacco juice, we finally got the better of the pest. Now it has got into our greenhouses. As it is very destructive and different from anything we have ever been bothered with I take the liberty of asking you if you are acquainted with the creature. They seem to sting and poison the leaves like the coleus and heliotrope I send you. Although they resemble the firefly, I do not think they are as we have never noticed them evenings when fireflies are apt to show themselves." E. A. SCRIBNER.

This is still another departure for the quite well known yellow lined leaf bug, *Pœcilocapsus lineatus* Dr. Lintner has



Yellow lined leaf bug much enlarged with a line on the right showing the natural size. The bug is a light yellow where the drawing shows white.

reported the same insect as nearly destroying a bed of dahlias for a New York florist, and he also records their work on such plants as morning glory, phlox, chrysanthemums, pinks, geraniums, day lily, sweet pea, burning bush, soap-wort and snapdragon. The bug is perhaps best known on currant bushes where it often punctures the leaves so that they turn yellow, wither, and drop off in early summer. It is also very abundant on tansy, mint, pigweed, and plantain at times, but these plants we can well spare.

Including all these plants, and those mentioned in the letter, we see that the bug is a very general feeder and one that should be known and watched. If at any time it is found outside, care should be used not to carry it inside the greenhouse in any form, as it may produce sad havoc. The bug breeds on the plants where feeding, and the shy young wingless bugs, much like the older ones except smaller, may be easily overlooked in transferring.

In reply to Mr. Scribner's letter, kerosene emulsion at the rate of one part kerosene in every fourteen was recommended, though rather hesitatingly for fear it might injure some of the more tender plants. A reply from him a few days ago stated that the emulsion had proved entirely satisfactory and the greenhouse was practically cleared of the bugs.

Agric. College, Mich. G. C. DAVIS.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



ILLUSTRATION No 2.

ARRANGEMENT OF FLOWERS.

New York.

There was a good demand for flowers on Monday and Tuesday, but on Wednesday, Decoration Day, nothing was doing. The 34th street market was a very lively place early on Tuesday. There was lots of stock and it sold briskly, particularly the more showy grades such as pæonics and lilies. Outdoor stock did not figure as it has in previous years, as the rain of the past week destroyed many of the flowers that usually help to fill in on Decoration Day. This contributed to make a better demand than would otherwise have been experienced for roses and carnations, and the wholesale houses were kept quite busy the first two days, but in general the supply was fully equal to the demand.

Roses found a ready sale at a slight advance over prices of last week when of acceptable quality, but there was an unusual lot of miserable stuff sent in, covered with mildew and in bad shape generally, which was sold with difficulty at rubbish prices and that was all it was worth. American Beauties were quite plentiful and sold at from $3 to $20 per hundred according to quality. Outdoor Jacqs began to come in on Monday and brought from $3 to $4, while Meteors went as high as $8 if clean and good. Carnations, of which there was a good supply, found an easy outlet at good prices, running all the way from $1 to $4 per hundred according to variety and quality. On an average carnations were of better quality than is usual at this season. After the early rush on Tuesday trade came to a standstill and there it remains ever since. The supply of flowers is not heavy, the dark cool weather holding it back, but a day or two of sunshine will bring us round to ordinary summer conditions.

The retailers did not seem to be generally busy. Some say that they had a fair Decoration Day trade but none claim that there was any increase over last year. Those in the immediate vicinity of the cemeteries were naturally kept quite busy. Much of their trade, however, was in plants and many of them complain that this branch although brisk was not satisfactory on account of the prevailing low prices, which are fully one-third lower than last year. The retail trade no doubt suffered considerable on account of the rainy weather which prevailed previous to the holiday.

Wm. H. Rand has left the employ of Aug. Rolker & Sons.

Boston.

Decoration Day trade was unexpectedly good. Prices went up into the steep figures on many things but in spite of this everything was sold out clean. Some of the growers hit it just right on astilbe, stocks and such flowers and got better than Easter figures for it. To look at the store windows and even the street fakirs' stands one might almost be persuaded that the bouquet era had returned. Bouquets were all the go and it mattered but little what they were made of. Deutzia, weigelia, rhododendrons and some spiræas were the main stock of outdoor supply. There were a few lilacs and poet's narcissus which came from somewhere up north and gardenias which came from far south, but these cut no figure. Lily of the valley was very scarce and on roses and carnations prices were trebled several days beforehand and they remained there without a break until the last. Everybody seems well satisfied with the results of the flower trade except some of the out of town people who had to get carnations from the city and felt pretty sore over having to pay three and four dollars per hundred for pretty slim looking stock. Dried and artificial flower designs did not seem to sell as well as usual and some dealers had quite a stock left on their hands.

This has been a busy season at the Arnold Arboretum. Mr. Dawson estimates that no less than 75,000 or 80,000 shrubs have been planted out this spring. The new study grounds where a single specimen of each species and variety will be planted each in its own botanical order for the purpose of study and comparison are being rapidly laid out. The beds are twelve feet wide and nearly eight hundred feet long each, and would make a total length of about three miles if joined end to end.

The results of Prof. Sargent's trip to Japan are beginning to show now in the immense number of young trees and shrubs produced from seeds collected by him at that time. Of azaleas alone there are about 20,000 seedlings comprising a great many species and forms, some of which have not yet been identified as ever before in cultivation. It is confidently expected that a race of hardy Azalea Indica will be obtained, for these seeds were collected on high mountains where the climate is as cold as prevails here, the only difference being that they have more snow there. The Azalea mollis, which is perfectly hardy, came from the same districts.

Mr. Dawson calls attention to an interesting instance of the value of grafting where several plants from seed of the Oregon larch are growing side by side with specimens of the same, grafted on the Japan larch (Larix leptolepis) with scions from the former, and the grafted trees although six years younger are already fully twice the height of the original and of much finer form.

The fall blooming Astilbe japonica which excited so much interest last year has proved perfectly hardy and is evidently constant in its peculiar period of blooming, as there is no indication of flower buds to be seen yet on the plants. It is a great acquisition. Deutzia parviflora, a pretty open flowered species with blooms of purest white, is held in high esteem by Mr. Dawson, who recommends it as a valuable sort for early forcing for cut flowers. A new pink flowered deutzia from Yunnan, China, is very attractive but is of doubtful hardiness north of Philadelphia.

At a recent meeting of the stockholders of the Gurney Hot Water Heater Co., of Boston, Mass., it was voted that the name of the Company be changed to the Gurney Heater Manufacturing Co., instead of as heretofore the Gurney Hot Water Heater Co. The company therefore, will on and after the first of June be known under the title of the Gurney Heater Manufacturing Co. The officers of the company are, Edward Gurney, President; John A. Fisb, Vice-President; John M. Paisley, Treasurer, and Wm. T. Isaac, Secretary. The company state that as they have added to their list of manufactures steam boilers and steam radiation, and inasmuch as the former designation of the company had limited its apparent operations to water heating apparatus, they decided to change its name slightly as above, in order to specify without radical alteration more fully and broadly the field of its future operations.

Cincinnati.

B. P. Critchell & Co., one of the oldest florist firms in our city, made an assignment on May 31st to Mr. Chas. E. Brown. The liabilities are said to be about $20,000, and the assets are not yet known. Dull trade is given as the cause of failure. Mr. Critchell has been in business here for some thirty years and is one of the best known men in the trade in this city. It is thought that he will yet be able to adjust all claims. The appraisers appointed are Messrs. Frank Pentland of Lockland, O., and T. W. Hardesty and E. G. Gillett of Cincinnati. The appraisers began work Monday, June 4.

Mr. John Bertermann, of Bertermann

Bros., Indianapolis, made us a call last Monday, having been called to Cincinnati suddenly on account of the serious illness of a brother-in-law.

Mr. John Lodder of Hamilton is also in the city. E. G. GILLETT.

Philadelphia.

Even scribes are not infallible; they make mistakes just like other people. Last week one of them would have Mr. Metcalf's establishment in Norristown, down on the banks of the river, when it is up in the town. It was a large culvert that passes underneath his place that burst and caused the damage and not an overflow of the river.

A meeting of the committee of arrangements having in hand the matter of the entertainment of the members of the S. A. F. in August next, was held at the club room Saturday evening last. Everything seems to be going along smoothly. The business of the convention is first kept in mind and nothing will be done that will interfere with it in any way. The hotel accommodation committee are actively at work, and before long will have a list of hotels and cottages to suit all tastes. The business at Atlantic City, where a number of hotels and cottages keep open all the year round, is reported to have been very good the past winter, and the indications are that the coming summer will probably be a record breaker. Mr. John Burton has been down a few days this week sampling the salt air and trying the fishing, in which sport he ranks second only to Mr. E. Asmus.

The cut flowers now coming in, particularly the roses, are poor and prices have dropped a trifle. Mermets, Brides and La France are now $4 per 100 and the smaller stock such as Perles, Mme. Cusins, Niphetos, etc., $2 to $3. Kaiserins are now in demand at $5 to $6.

It would seem as if there will be no scarcity of summer roses, as quite a number of the growers have houses planted with stock for summer cutting, the varieties being mostly La France and Marie Guillot. Asters are also being planted inside and produce very fine flowers when grown in this way. There was a good demand for such stock last summer.

The chrysanthemum men are also busy and if all the houses now being started do well there will be an abundance of the Autumn Queen. While speaking of this flower it might be well to call the attention of the growers to the fall exhibition of the Horticultural Society at the Academy of Music. This will be away ahead of anything the society has done heretofore and all the local growers will need to do their very best, as the competition will not be confined to this city. Efforts will be made to get the best stock from all the large floral centers, it having been demonstrated that the chrysanthemum will carry long distances in perfect order if packed properly. We believe the day for growing large plants for exhibition is nearly past. Large vases of specimen blooms are much more effective than large plants. The latter are a great source of trouble all throughout their existence; many little things may happen which will render them unfit for exhibition, and finally if they should attain perfection, they always become more or less damaged and sometimes entirely ruined in transportation.

Some of the palm men are complaining, saying there is not near the demand for palms that there was last year. The auction sales have not been up to expectations which is very likely accounted for by the bad weather which caused postponement and subsequent falling off in attendance.

Mr. Harry Heacock, who has gone back for a time to his friends in Pittsburg, was the recipient of a farewell dinner last Monday evening given in his honor by his friends in the retail business. Although not long a resident of this city Mr. Heacock has made friends of all he met. In his dealings with the trade his manners have been exceedingly courteous, nothing seemed to be a trouble to him, he would get what was wanted it it was in the wood. So to show their appreciation of his worth this little entertainment was given. There were present besides Mr. Harry Heacock, Mr. Jos. Heacock, Messrs. Thos. Cartledge and his son Bart, Charles Kahlert, George Thomas, Eugene Weiss, Harry Jones, Geo. Craig, Geo. McLean, Robert Crawford, M. Rice, Geo. Rauch, Henry Bauer, L. B. M. Goff and Robert Kift. After the coffee and cigars had been reached there were informal speeches and words of regret at the parting of their friend and the hope expressed that he would be back before long. The party broke up at a late hour with singing of Auld Lang Syne.

The bowlers are having a great time in their practice games and there are many surprises. The big four are, well, they are not suited and some dark horses are coming to the front. K.

Chicago.

At a meeting of the Board of Commissioners of Lincoln Park held last Thursday evening, Supt. Pettigrew was formally removed and Mr. Horace C. Alexander was appointed his successor. No charges whatever were made against Mr. Pettigrew, and the board asked him to remain (under full salary) for another month in order that he might instruct the new superintendent in his duties. Mr. Alexander is 41 years of age and is a member of an engineering firm in this city. He has never before held any public position of any prominence, and is but little known, even in the engineering world. The salary of the new superintendent will be only $3,000 a year, though Mr. Pettigrew received $3,600.

A daily paper prints a list of Mr. Alexander's backers, but among them does not appear the name of any very prominent citizen and the majority of them are practically unknown to the general public. In last Friday morning's *Herald* the supervisors of the North Town are reported to have stated that they will seriously cut down the appropriations for Lincoln Park the ensuing term. The storm of protest against the action of the commissioners in removing Supt. Pettigrew is loud and long and every daily paper in the city criticises the board sharply. The president of the board is now finding out that he cannot execute the behests of Gov. Altgeld without sharing some of the odium that attaches to his actions. Several of the dailies are scoring him unmercifully in their editorial columns.

Mr. Pettigrew has not yet fully decided as to his future movements. He has several very flattering offers under consideration, and will probably make a decision before the end of next week. It is significant that those who are bidding for his services offer better salaries than he received as superintendent of Lincoln Park, and a curious point in connection therewith is that one offer is extended mainly on account of his ability in engineering work.

The forthcoming supper of the Florist Club (June 14) promises to be an unusually enjoyable event. We understand that Mr. O. P. Bassett intends to contribute some extras that will be decidedly acceptable on such an occasion. The intellectual treat will also be of a high order, as some of the best thinkers in the club will discuss some very live issues from their respective standpoints. Supper tickets will be only $1 so that the expense need not deter anyone from attending.

The stock of cut flowers for Decoration Day was considerably short of the demand, at least for the three days preceding, Decoration Day proper being very quiet with little demand. The exceedingly heavy demand was for out-going shipments on Monday and Tuesday. Owing to the great scarcity of out-door bloom of all kinds, the country dealers were compelled to draw on greenhouse grown stock for the bulk of their supply. Many orders had to be cut short, while a great number were refused altogether.

As might be expected, prices were maintained at the top notch, and as regards the smaller varieties of roses better prices were realized than either at Christmas or Easter. Carnations too ruled at Christmas prices and although a larger cut was sent in than was looked for the supply was far short of demand. From the growers' stand-point therefore Decoration Day was the biggest kind of success, and naturally the wholesale dealers too reaped a good harvest, a number of the latter claiming larger sales than at any former season.

But there is much dissatisfaction in retail circles. Extreme fluctuations in prices are always hurtful to the business. At Christmas or Easter the flower buyer has learned to look for a sharp advance and if kept within reason little complaint is made. But when prices double or treble at this season of the year the retailer must be prepared for trouble. The home demand on the whole was fairly good, but only small profits were realized, for the dealer who kept in view the importance of holding his patronage had to sell on a close margin. Bitter experience has taught him that the buyers cry of "extortionate prices" is death to business. Let the flower buyer once get the notion in his head that he is "held up" at holiday times and he will fight shy of the flower store for months after.

The high prices had the effect of driving the fakir off the streets almost entirely. But if the fakir in cut flowers was banished the fakir in plants was in high feather. These fairly swarmed around the entrances to all our cemeteries. The business in plants was however not very large as the weather was raw and chilly.

The scarcity of stock and consequent high prices continued throughout the week. On Monday of this week, however, the market opened much weaker. A few days of warm weather brought out an increased supply and this with a decided falling off in shipping demand caused at once a drop in prices. Pæonies particularly are received by the wagon load and threaten to become a bad glut for a week or ten days. The bulk of the supply is received from local points, the average quality being much poorer than last season.

The widow of the late John C. Moninger has disposed of her interest in the John C. Moninger Co. to Messrs. E. F. Kurowski and N. J. Rupp, who now fully control the company. Both have been connected with the firm for many years and there will be no change in the management, as the business has been really conducted by them ever since Mr. Moninger's death.



ILLUSTRATION No. 3.

ARRANGEMENT OF FLOWERS.

Washington.

Although the weather was not encouraging Memorial Day was generally observed by citizens and veterans alike. The interest centered, as it always does, at Arlington. At the tomb of the unknown, where the decorations are more elaborate than any other, the top was draped with a large flag. The base of the monument was hidden beneath a bank of roses, daisies and kalmia flowers with bunches of nymphæas, pæonias and large magnolias strewn here and there. From the four corner posts were festoons of kalmia leaves. Resting on the front of the monument was a large wreath of pink pæonias, dark red roses, stephanotis and Deutzia crenata fl. pl. with a back of asparagus; this bore a card from the Executive Mansion. Above this was a 5 pointed star of callas and candidum lilies. Resting against one corner was a handsome wreath of nymphæas, carnations and kalmia flowers on a back ground of ferns, bearing the card of Gen. John A. Logan's Woman's Aid Society No. 1. Against the opposite corner stood a scroll of cape flowers with corners of pink sweet peas and roses. Resting against either end of the monument was a large wreath of pink pæonias and roses with a back of laurel and ferns.

The resting place ot General Sheridan was beautifully decorated with a headquarters' flag of red and white cape flowers, from "Loyal Legion"; and by a saddle of red and pink roses, the stirrup straps of kalmia flowers and the stirrup of purple chenille, and a G. A. R. badge of immortelles. Resting on the base of the shaft were three placques, two of pink roses and one of white and pink sweet peas.

The grave of Admiral Porter was strewn with white and pink flowers. There was a large anchor of pink roses and kalmia flowers resting on a background of kalmia leaves and asparagus. At either side of the grave was a wreath of white cape flowers with the word "Porter" in purple immortelles.

Surgeon Gen. Baxter's grave, which is covered with growing ivy, was strewn with nymphæas, magnolias, roses, iris, and pæonias.

Gen. Crook's magnificent monument was handsomely decorated. Resting against the front of the base was a fine wreath of pink roses, callas, Harrisii, candidum and carnations; adiantum and ivy leaves formed a back ground. On the opposite side was a cross of ivy leaves on which rested a crown of small helianthus flowers; this was from the Legion of Loyal Women.

A splendid floral tribute rested on the grave of Gen. Wm. B. Hazen, bearing the inscription "Forty Rounds."

The grave of Maj. Gen. Rufus Ingalls was decked with an elegant spread of white and pink roses, from Lafayette Post No. 140, of New York. At the head of the grave and resting against the shaft was a handsome wreath of white flowers, mostly Harrisii and carnations. At the head of each grave (numbering 16,800) was a small flag and a bunch of flowers.

At the Soldiers' Home there were 6,500 graves to be decorated in the same way. The tomb of Gen. John A. Logan at Soldiers' Home was beautifully decorated. Over the door was a background and the name of "John A. Logan," entirely of laurels. Inside the walls were lined with beautiful floral pieces and the casket covered with harps, hearts and wreaths and many other artistic tributes in immortelles, roses, laurel and ivy. These offerings to the memory of the great volunteer general had been arranged with artistic effect by Mrs. Electa E. Smith and Mrs. Caroline Nye.

From the tomb of Gen. Logan the crowd went to the monument of Gen. John C. Kelton, late governor of the Soldiers' Home, which was unveiled with impressive ceremonies and handsomely decorated with flags and flowers both loose and in designs.

Business with the florists was brisk during the first part of the week and until after Decoration Day. The demand for designs seems to have materially increased this year and more of them worked in natural flowers. REYNOLDS.

St. Louis.

Decoration Day trade was very good, much better in fact than anyone had hoped for; stock was scarce, and this made the marked improvement. No advance in prices was noted, but everything was cleaned out. The shortness of stock has been noted for the last week, and is owing to the remarkably cool nights prevailing for this season of the year, many having to start the fires going again. Decoration Day, which heretofore has not been looked upon as anything much out of the ordinary, seems to be gaining in importance in regard to the flower trade.

The Ayers Floral Co. has taken possession of the store formerly occupied by the Pechman Floral Co., which they succeed. This gives them two stores in the "West End."

Wm. Hucke of Belleville is having a three-quarter span rose house 18½x82 erected by Thomson, Anderson & Kennedy; the benches are to be of the shallow solid bed type, with steam pipes passing underneath, to afford bottom heat. These will be the first tried in the West on this plan, and the workings will be watched with interest. He is also changing his boiler, putting in a steel one in place of the cast iron sectional that he has been using.

Thompson, Anderson & Kennedy, the horticultural builders, narrowly escaped being burned out one night last week, when fire was discovered in the cellar. The cause was spontaneous combustion, and originated in a heap of waste which the painters carelessly left lying in a corner. Fortunately it was noted about 9 o'clock as work was being stopped for the night, and extinguished without any trouble.

The Kirkwood Improvement Association held a spring flower show recently in connection with the maypole festivities, which was very creditable; prizes, which consisted of merely a blue ribbon, and honor, were offered for various classes, such as best table of flowers and plants, best collection of house plants and so forth. Mr. D. S. Brown showed a fine table of plants and flowers, containing specimens of marantas, crotons, pandanus, hydrangeas, anthurium, cannas, cypripediums, and as a center piece a fine specimen of cattleya, the plants all being clean and healthy. He also made a group of palms in the center of the hall. Mrs. Murtrett showed a table tastefully arranged, the plants being principally begonias, the cut flowers consisting of syringa, hybrid roses, lemon lily and other outdoor blooms, the cloth where it fell from the table to the floor, being decorated with evergreens. Tables were also arranged by Mrs. Mermod, Luther Armstrong and Robert F. Tesson. A large load of plants were sent by the Michel Plant & Bulb Co., which were arranged in a group, and towards the end of the evening auctioned off, the proceeds being donated to the association. The affair wound up in a dance for the young people, and was a pronounced success in every respect. R. F. T.

Madison, N. J.

Madison is one of the prettiest towns in the vicinity of New York. Large well kept estates with fine gardens and lawns and other evidences of comfort and refinement are seen on every side. More notable however is its prominence as a rose growing section. Rose growing is in fact the principal industry of the town. With a total population of two thousand five hundred there are fifty-three establishments of greater or less extent which consign flowers to the New York market, and the little railroad station at times is half buried in flower boxes going and returning. The business at Madison never stands still. New concerns are constantly springing up, old ones continually adding to their extent. Even under the adverse conditions of the present season many growers are preparing to increase their glass area.

An establishment which has attained unsought prominence recently is that of Mrs. R. B. Holmes. A romancing lady reporter with a lively imagination called there and "wrote up" the place for a New York daily with the usual result. Her astounding tales of the enormous quantities of violets picked here daily and the resultant wealth to the enterprising proprietor set ambitious womankind half crazy, and upon Mrs. Holmes was imposed the task of replying to some two hundred anxious letters of enquiry from all over the country. Although violets are grown here to some extent yet the main crop is, as everywhere else in Madison, roses. A promising sport from American Beauty has appeared here and is being watched with interest. Two large houses just erected under the supervision of a local builder are in bad shape, and appear to be in danger of collapse. They will require considerable remodelling. Experience is a great teacher; beware of the "local builder" when you erect greenhouses.

Calling at Mr. T. J. Slaughter's one finds the houses which were recently destroyed by fire fully replaced and young stock all planted. Comfortably posing in the barn door, peacefully enjoying the balmy spring breezes, the well built figure of Mr. S., Jr., looms up, but it is a long step down to the ground, an overexertion not to be thought of, so nothing is left for the visitor to do but to pilot himself through the houses as best he may and to regret the absence of the genial proprietor.

L. M. Noe does not propose to let the grass grow under his feet. That he raises roses for profit and not for fun is plain in every feature of his big place. American Beauty he pronounces the most profitable rose in existence, and one is not inclined to question his sincerity after seeing the perfection to which this variety is grown here, eight thousand plants all told, a veritable forest. Bridesmaid comes next to Beauty in Mr. Noe's estimation. He believes in giving Beauties all the water they can take in summer, then easing up on quantity when he begins to mulch in the fall. A bucket of this Madison water stands in the potting shed. The visitor refreshes himself with a draught of it from a bright tin dipper and unhesitatingly pronounces it excellent for rose growing purposes.

Beauty and Bridesmaid are also the favorites with Mr. Edgar Hopping. He gives it as his experience that Bridesmaid and Bride are good for one dollar a hundred more than Mermet the season through. A new house just complete is planted with Bridesmaid, and another for American Beauty is soon to be added.

J. D. Burnett is a successful grower, and one of the boys as well. He evidently believes in Mermet and her offspring, for Mermet, Bride and Bridesmaid are the principal varieties under cultivation here. Mr. Burnett looks for Bridesmaid to improve steadily each year in strength and vigor and will plant it more extensively for next season. One more house 180 feet long will be the extent of his building operations this spring.

T. W. Stemmler has begun work on the erection of a range of five new houses. This establishment is built on a side hill with a fine exposure, and roses in variety are grown, Perle des Jardins being apparently one of the best paying crops. They have borne very heavily the past season.

St. Paul, Minn.

Decoration Day trade went far ahead of all expectations, and the demand for flowers was unparalleled. Everything sold, from snowballs to roses, and the demand was principally, for the cheaper flowers, still roses, carnations, sweet peas, jasmine, etc., sold readily at advanced prices. The cemeteries were strewn with flowers of every description, loose, in flat bouquets, in wreaths, crosses and numerous other designs.

Trade the rest of the week has been good and will undoubtedly continue so for two or three weeks, or until the graduation exercises are over at the schools.

The demand for plants for Decoration Day was unusually large and thousands were disposed of in this manner. Bedding out is nearly completed, nearly a month earlier than usual, and the florists are now putting their houses in shape for another season.

There will be an unusually fine lot of chrysanthemums grown here this season and as spring work is out of the way earlier than usual this season, there will be ample time for perfecting plans for a "mum" show this fall. If only our florist friends would see it in the proper light, they would not let the opportunity pass for a first-class chrysanthemum exhibition next November. Such an exhibition in creating a rivalry would stimulate the growers to do their best and as a result some fine plants would be produced. But the crowning benefit would be the stimulus given to trade by the exhibition itself. In order to create a desire for our goods we must advertise and display them, and what better adv. could the florist have than an exhibition where thousands of people would visit, and where thousands of the best plants would be shown? What creates the demand for Easter flowers more than the annual displays made by our florists?

Get together, brethren, put your shoulders to the wheel, and move on to higher ground. Create a demand for your goods and you will sell them. Don't stagnate, don't complain of hard times, ruinous competition, etc. Have a first-class chrysanthemum show, pull together, improve your stock and all work in unity, and you will be surprised at results.

The Oakland Cemetery maintains a small greenhouse of its own, growing a few thousand bedding and flowering plants annually. Mr. Nordquist, who has charge of the greenhouse, is quite an artist in his line and has some of the finest carpet beds, mounds, etc., in the city. The cemetery association also fills vases and plants beds for lot owners at reasonably rates, thus adding to its income quite a little annually. Some two or three years since, the association adopted the rule that no vases and no beds of plants would be watered or attended to except at additional cost unless plants for same were purchased from them, thus compelling lot owners to buy plants from them or to attend to the daily watering of them themselves. Such a rule, obnoxious to the lot owners, detestable from the florist's point of view, and narrow, mean and contemptible on the face of it, will in the end prove a boomerang to the cemetery and cause the association more damage than good. We are reminded of it most forcibly at this season, when so many say to the florists, "We would like to have you fill our vases at the cemetery, as your plants are finer, you have a better assortment, and your prices are more reasonable, but the rule in force precludes our ordering of you as we cannot go daily to water them, and cannot afford to pay to have it done." If department stores are a thorn in the side of our florist friends, what must the cemetery association be, when its object is to provide a resting place for the dead and not to engage in the merchandise business. Verily the bodies of true florists would turn over in their coffins if placed beneath such flowers. FELIX.

Buffalo.

Two weeks ago on Wednesday last we had a heavy rain and thunderstorm, and ever since it has done little else but rain; the few intermissions are not worth recording. It has soaked everything, and made the tempers of the greenhouse men very sour; that is those who are inclined to get fretty when "bis" don't go right. It has really been serious, and has put back planting a full week. But florists mustn't grumble, we have not lost all our spring work, as hundreds of farmers have, neither have we seen any hail yet to do any damage, as our brethren in Cleveland have.

The most noticable feature of Memorial day was the good demand for flowers and plants, and the difficulty to supply them. Our old standby lilac was gone, and valley was in the sere and yellow leaf, carnations and roses don't go far in cheap flowers, but there was a good demand for all there was of them at good prices. Many thousand plants were taken to the cemeteries in place of flowers. By a strange arrangement of the weather bureau it didn't rain on Decoration Day, which made everybody very busy. There was a greater assemblage of florists to be seen in Forest Lawn than can be ever got together at a club meeting, unless it be a free lunch.

Flowers of all kinds can be called scarce. The continued heavy rains have spoiled most everything outside, and the same cause has shortened up all supplies from inside. This has been an excellent year to learn those a lesson who heavily shaded their houses early in May and let the fires out during this prolonged wet cold spell. Thousands of fine geranium trusses have rotted, which would now be very useful and ornamental on the plants.

We are in the height of the planting out when we can get at it, and the business promises to be quite up to former years, with an expected increase for the many fine residences that did not exist a year ago. Veranda boxes and vases are as popular as ever.

Mr. W. Mott of Philadelphia is here, he is No. 47 since March 1, and there is yet a few to come. W. S.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

Jenkintown, Pa.

Mr. Jos. Heacock has a model establishment here, comprising some 50,000 square feet of glass. Most of the plant is of modern construction, with all the latest improvements for heating, ventilating, etc. Roses are the great specialty of this place—a small house of carnations, another of adiantum and one of palms being the only other stock grown. At one time Mr. Heacock used to grow considerable valley, but has given that up, as he finds more money in roses, Mermets, Brides, and Bridesmaid, all standbys here; the Bridesmaid is held in great favor for its fine color and constancy. Testout has done well this winter with Mr. Heacock; far better than was expected, and a larger space will be devoted to it for the coming season. Wootton is another favorite here, and Meteor also does well and pays handsomely. One large house is devoted to Kaiserin for summer flowers. Brunners are very successfully grown, and a large space is devoted to them. At the time of your correspondent's visit one large house had been planted with it for next season, and other houses were being got ready for the same variety. Out of doors the most striking thing in the way of bloom at present is the field of pæonies. They make a great show, and come in good for cutting. Some four or five thousand blooms are disposed of every season, and many more could be supplied if wanted. Mr. Heacock is ably seconded in his labors by his foreman Mr. Adolph Fahrenwald, to whom much of the credit for the fine appearance and great reputation of this establishment is due. W.

Doylestown, Pa.

A rather serious fire occurred on the Smith place here recently, destroying a section of the greenhouse plant, which included the boiler houses and two greenhouses adjacent. Mr. John Andre, who is the tenant of these greenhouses, says the origin of the fire is a mystery, as the houses had no heat on at the time. He is inclined to think it the work of some incendiary. The greenhouses destroyed contained a crop of smilax that was to have been cut the next day, the loss on which Mr. Andre estimates at fully $500. He has given up his lease of the Smith place and will give his whole time hereafter to his own establishment.

Mr. S. Edward Paschall has moved to West Chester, where he has purchased the Chester *Record*, and will devote himself to its interests. His mushroom-growing barns have been secured by Mr. Andre for the coming season. The people in this neighborhood who make a specialty of growing the "King of Esculents" are now busy cleaning out the old beds and thoroughly cleaning and limewashing their houses preparatory to fall planting. In this neighborhood the first planting is usually made about the end of August, although some claim that they are to try it a little earlier this year in order to get the full benefit of the high prices in October. W.

OBITUARY.

THOMAS LOBB.

This veteran collector, to whom we are indebted for valuable introductions from the East Indies, died at an advanced age at his home in Cornwall, England, April 30 last. Mr. Lobb was engaged as a collector by the elder Mr. Veitch in 1840. During the twenty years he traveled for the Veitchs he visited various parts of northeastern India and lower Burmah, Borneo, Java and the Philippines. Among the orchids introduced by him are Vanda cœrulea, Aerides Fieldingii, Dendrobium infundibulum, etc.; he also introduced some of the first nepenthes cultivated in British gardens and the original Javanese rhododendrons. He was a most energetic collector, sending in more Indo-Malayan plants of merit than any other single collector. Personally a very modest and retiring man, he would say but little of his discoveries.

As a result of the exposure during his work, Mr. Lobb lost one of his legs, which caused him to settle down some years ago in his Cornish home, where he has lived very quietly since.

Died on May 24 at 10:25 p. m., Andrew Bassler, in the 71st year of his age. A native of Wurtemberg, Germany, Mr. B. was for many years a leading grower of cut flowers and plants near Catonsville, Baltimore county, Md.

News Notes.

WEST TROY, N. Y.—Isaac Gillett is building a new house 22x82.

ROCHELLE, ILL.—C. M. Taylor has started in the florist business here.

DAYTON, O.—A. L. Hale intends to soon build a range of houses for vegetable forcing.

SASSENHEIM, HOLLAND.—Mr. P. Vos, of P. Vos & Co., arrived home May 19 from his American trip.

HATBORO, PA.—Harry Weiss, formerly of Manheim street, Phila., is building a range of houses here.

SUMMIT, N. J.—Chas. H. Hagert is building a new rose house. The heating is by Thos. W. Weathered's Sons.

COLMA STATION, CAL.—Grallert & Co. have built two new houses 16x100 and have planted same with carnations.

LEONARD, PA.—J. H. Sharpless is building two large new houses. The Moninger Co., of Chicago, supplied the material.

LOWVILLE, N. Y.—Chas. E. Butts is putting up two 50-foot houses here and is going into business as a general florist.

DESMOINES, IA.—I. W. Lozier expects to add new glass this summer and rebuild his old houses. Business is fairly good considering the prevailing hard times.

WILMINGTON, N. C.—We are glad to report that spring trade has been very good. We have had no rain for six weeks and it has been hard on outdoor stuff.

ORANGE, N. J.—We are having a plague of the 17-year locusts in this section. The country is fairly alive and under some trees the ground is almost entirely covered with them.

LEXINGTON, MO.—J. P. Coen, Jr. has added three large new houses, two of them on the short-span-to-the-south principle, from material supplied by the Moninger Co., Chicago.

MIDDLETOWN, O.—Miss Caroline, daughter of Mr. Henry Behrens, the florist, was married May 17 to Mr. Nelson O. Selby. The number of guests was very large and the floral decorations were very elaborate.

ATLANTA, ILL.—C. A. Jones is building an addition 32 feet in length to his greenhouse. Trade has been better here this season than we anticipated. Trade seems to be one-third better than last year so far.

BEATRICE, NEB.—S. H. Dole & Sons are adding about 3,000 feet of glass to their plant and will also build a small up-town house and store. Trade has been quite satisfactory, notwithstanding the hard times.

MT. STERLING, KY.—The Mt. Sterling Floral Co. will give a chrysanthemum show this fall, the surplus receipts to be donated to the public library fund. Plants have been given to school children to grow for competition at the exhibition.

OGDEN, UTAH.—F. J. Hendershot has started in as a florist at 24th and Monroe streets. He has one house 20x100 completed and is now building another which will have under irrigation and drainage, both heated by hot water and with electric light.

PEORIA, ILL.—Decoration Day trade was excellent here. Plants of all kinds sold well and cut flowers went quickly at fair prices. Quality was good, but there was not half enough to meet the demand. More calls for designs and mixed cut flowers than at same date of any previous year. Spring trade opens well. Most all sales are for spot cash.

Expose the Rogues.

The article in last week's issue of the FLORIST on "Imperfect Von Sions" is timely, and hits the nail on the head. The sale of these Italian bulbs has done a great injury to the trade, and reputable importers should not offer them to their customers, because it hurts the business all round. Their only recommendation is their cheapness, and that is more in seeming than reality. In fact they are dear at any price. Of course, these defects in certain products are only found out after a while, but it is now some time since the weak points of the Italian stock were known, and it is but right that such should be given full publicity for the protection of the unwary and inexperienced. In this connection it may not be out of place to mention that getting the bulbs from Holland does not insure that Italian stock will not be sent. There are unscrupulous and unreliable dealers in Holland as elsewhere, and it takes some experience in the importing business to avoid the pitfalls. The safest course is to secure supplies through reputable concerns in this country.

Another instance of how an inferior grade of bulbs hurts the trade, is found in Lilium candidum. Although largely displaced by Harrisii and longiflorum there can be no doubt but that it was largely injured by the introduction of the cheap and inferior bulbs from the south of France, and it is only recently that florists are beginning to realize that candidum is after all a very useful and profitable lily if one can only get the genuine old fashioned stock. In fact, inferior stock of nearly all our forcing bulbs is being constantly offered, and because it looks cheap many people jump at it, and when the day of reckoning comes they are only too apt to condemn the whole bulb business, and give it up in disgust. In seeds and bulbs more than anything else the motto that should always be kept in mind is "get the best,—get it as low as you can; but get the best that can be got, even if it looks high at first blush."

G. C. WATSON.

THE Denver Florists' Society has issued an advance schedule of premiums for its second annual chrysanthemum show to be held Nov. 7 to 10. Copies may be had on application to Adam Kohankie, Sec'y, lock box 375, South Denver, Colo.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By young woman to learn general greenhouse work; Wisconsin or neighboring states preferred. Address
MISS MIRIAM JEWETT, Sparta, Wis.

SITUATION WANTED—By a young man, single, 8 years' experience. Commercial place preferred. Can give best of references. Address
F. C. MORLAN, 308 Garfield Ave., Salem, O.

SITUATION WANTED—By a thorough, first-class greenhouse assistant; age 26; 5 years' experience in commercial place; sober and reliable. Address
RELIABLE, care American Florist.

SITUATION WANTED—By a first-class rose grower, as a working foreman; single; 20 years' experience as a florist; very temperate, and thoroughly reliable. First-class references. Address E G E.
care American Florist, Chicago.

SITUATION WANTED—By July 1st, as working foreman on private or retail commercial place; has been head man for Mr. Coles for past 14 months; single. West preferred. Address
FLORIST, care W. W. Coles, Kokomo, Ind.

SITUATION WANTED—By experienced man as working foreman in retail commercial establishment. Well posted in roses, carnations, chrysanthemums, bulbs, palms, ferns and all the requirements for supplying a first-class store. Address, with all particulars, H. STOCKING, care Wilshire Bros.,
651 Sherbrooke St., Montreal.

WANTED—Second-hand hot water boiler. For sale —Hot water boiler in good condition. Address
JOHN CORBETT, Mt. Sterling, Ky.

WANTED—Good second-hand Saddle boiler capable of heating 2,400 feet of glass.
ISAAC GILLETT, West Troy, N. Y.

WANTED—Greenhouse assistant; young man, some experience, good habits. State wages with board. Commercial place. Address
GEO. S. BELDING, Middletown, N. Y.

WANTED—Working foreman who can grow first-class cut flowers and plants, for store and retail trade. Good place and liberal inducements to capable man. J. GAMMAGE & SONS, London, Ont.

WANTED—A single man, experienced in growing cut flowers and general greenhouse work. None but sober, industrious man need apply. State amount wages wanted. C. S. FOOTE, Downers Grove, Ill.

WANTED—Foreman to take charge of commercial place. A1 rose grower who knows roses; one experienced in carnations and bedding plants; A1, married man can secure permanent place. Address
Box 61, Providence, R. I.

WANTED—A first-class working foreman to take charge of 20,000 feet of glass, and grow roses, carnations and general stock. Applicants please forward references, and state wages expected. Address
M N, care American Florist, Chicago.

WANTED—A competent man, one who is well posted and thoroughly understands the management of a commission cut flower business. None but an A1 man need apply. State experience, reference and wages expected. COMMISSION CUT FLOWERS,
P. O. Box 1161, Philadelphia, Pa.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man.
WILFRED A. BROTHERTON, Rochester, Mich.

WANTED—A foreman to take entire charge of a very large establishment in Belgium, one who thoroughly understands the best methods of forcing roses, carnations, etc., etc., as practiced in America. One having had considerable experience in the direction and management of men, and having a pleasant address preferred. To the right man a good position with liberal wages and free passage to Belgium will be provided. Address with full particulars, copies of testimonials etc., to JOHN N. MAY, Summit, N. J.

FOR SALE—A 10-section Carmody boiler, pattern No. 1. C. T. BRIGGS, Avoca, Iowa.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about $75. VAUGHAN'S SEED STORE,
86 State Street, Chicago.

FOR SALE—A valuable florist establishment in good location. Address
Lock Box 902, Washington, Iowa.

FOR SALE—2 large Bay Trees, round heads, 7 feet broad, 12 to 14 feet high. Shown at World's Fair.
VAUGHAN'S SEED STORE, Chicago.

FOR SALE—Hitchings patent portable return flue boiler No. 17, used two seasons, warranted perfect and all right. W. A. LEE, Burlington, Vt.

FOR SALE—Greenhouses, hotbeds and fixtures, in thriving Kansas town; good retail business. Will assist purchaser until acquainted. Address
KANSAS, care American Florist.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE,
146 & 148 West Washington St., Chicago.

FOR SALE—$500 will buy the nicest little florist establishment in the city, first-class location; come and see for yourself.
J. A. LESNER, 349 East 33d St., Chicago.

FOR SALE—Five greenhouses, stock of plants, tools and hotbed sash; good retail trade; about 20 years established. Will lease ground for term of years; good opportunity for right party. Address
E. MCNALLY, Anchorage, Ky.

FOR SALE CHEAP—A No. 3 Furman boiler in a No. 1 condition; has only been used 3 seasons. The Furman doesn't need any comments. Reason for selling, enlarging the business.
A. C. LAMPRECHT, Ashland, Ohio.

FOR RENT—A first-class commercial place in suburb of Chicago, containing 15,000 square feet of glass, well stocked with best varieties of forcing roses. Address RENTER,
care Olsen & Hughes, 66 Wabash Ave., Chicago.

FOR SALE—The stock and good will of a paying florist business in a thriving Maryland town. Location exceptionally good. Rare chance for a good man with a small amount of capital. For particulars address HEBARD, care American Florist.

FOR RENT—Woodbury greenhouses, consisting of 6 houses 20x75 feet, with office, packing room, potting shed, heated with steam, city water; finely located on four railroads; a good business; the only florist's business in the city; 30 minutes from Phila., 20 trains daily; a first-class opening for anyone wishing to engage in a florist business. Vacated only on account of continued sickness.
J. H. LUPTON, Woodbury, N. J.

FOR SALE—Splendid business opportunity, 5 greenhouses, three 18x75, two 12x75, stocked with roses, carnations, violets, near Portland, Oregon; electric cars pass near the property every half hour to Portland. Good dwelling house two-story 18x28, good well, chicken house, barn, stable, 5¾ acres land. Price, $3,500; terms, $1,000 cash, balance $500 a year. Address
D. C. LATTOURETTE, Oregon City, Oregon;
or G C, care American Florist Chicago.

FOR SALE—Two greenhouses, each 15x100 feet, well stocked, heated by hot water; built on three lots in the heart of a live city of 25,000 people. Comfortable dwelling house; three years' lease to run, rent $25 per month for house and lots. For a rose grower this is a snap. $2,000 worth of roses shipped in here last winter and spring. Will sell for $1,700. Particulars by addressing
ILLINOIS, care American Florist, Chicago.

FOR SALE—At a bargain, or exchange for other property. The oldest and best known florist and truckers plant in Southern Kansas; 22 acres, early export to Colorado, Nebraska, etc. Fine cut flower and plant trade. No greenhouse near; 5000 feet glass; steam or water heat; natural gas and water works; 5 acres asparagus and pie plant; 7 room house, large barn, shop, office; live town; healthful climate. Good reasons. Address WILLIAM H. BARNES,
Box 845, Independence, Kans.

NOTICE.

Notice is hereby given to all persons owing bills to M. A. HUNT, florist, late of Terre Haute, Ind., to pay the same to S. M. Reynolds, duly appointed Guardian of the person and estate of Julia M. Hunt, widow of said M. A. HUNT. Persons having bills against M. A. Hunt will present them to said guardian for payment.
Address S. M. REYNOLDS,
327½ Main Street, TERRE HAUTE, IND.

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ABUTILON AUDENKEN AN BONN, a striking novelty in variegated plants, as an isolated plant in vases or on lawn equaled by few others. Silvery white variegation on dark green foliage, very fine. **$6 per 100; $1 per 12.**

TORENIA AZUREA GRANOIFLORA, a fine bedding plant of new color, and constant bloomer. **$6 per 100; $1 per 12**

FUCHSIA ABBE GARNIER, far superior to Phenomenal in every respect. **$6 per 100; $1 per 12**

FUCHSIA BRIDAL VEIL, the ne plus ultra in double white, free and early bloomer, large and perfect, flowering in greatest abundance. **$6 per 100; $1 per 12.**

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Our collection embraces only the finest sorts in commerce to-day. Our exhibit comprised over Four Thousand Plants, more than three times the quantity exhibited by all other exhibitors combined, and created an impression that will not soon be forgotten.



CHARLES HENDERSON.—We consider this variety for general use, on account of its compact, perfect habit of growth, large size of flower, habit of bloom, and brightness of color, by far the finest kind that has been introduced since Mme. Crozy. It is identical in habit of growth with Mme. Crozy, which is considered the standard of perfection at the present time, but is entirely distinct, the flower being of the brightest crimson; we consider the flowers, from test made, to be larger than Mme. Crozy, and the heads of bloom to be also larger. As a pot plant for spring sales, as the companion of Mme. Crozy, there had been no variety sent out that was at all equal to Mme. Crozy in general desirability until the introduction of this kind, and it will meet with a very large sale in consequence, and we think will outsell Mme. Crozy. This variety and Alphonse Bouvier are very similar in color, and while for effective bedding in masses in summer, Alphonse Bouvier will surpass it, Charles Henderson for general use will be found to be very much more satisfactory, particularly as a florists' plant for selling purposes, as for this purpose Bouvier is not desirable as it is a tall grower and does not flower freely nor quickly enough under glass. We believe that Charles Henderson, without question, will give more satisfaction to the trade generally than any other variety sent out up to this time, and we can recommend it very highly; no variety we have ever tested in our greenhouses has ever compared with it in any way, our plants being a solid mass of bloom. It was introduced last season for the first time, and was pre-eminently the finest introduction of the year. We believe it for outdoor bedding to be equal to Mme. Crozy; under glass we consider it superior; its dark, bright crimson color will undoubtedly insure it a wide distribution and ready sale, and it can be offered by every florist with the assurance that it will give unqualified satisfaction. A beautiful illustration, painted from nature, which shows how perfect and beautiful a flower it is, will be mailed free on application.

FLORENCE VAUGHAN.—This is the best yellow spotted Canna introduced up to this time; color, lemon yellow spotted with bright red. The size and form of the flower is by far the best that has been raised to date; it has been claimed for this variety that it was the best yellow in cultivation, but the scarlet markings on the petals detract from the brightness of the yellow, and while it is unquestionably the best mottled sort, it does not equal Capt. P. De Suzzoni as a yellow variety FOR BEDDING. It is a strong, robust grower, with flowers of the largest size with large heads, blooms freely, and for florists' sale will be very, very satisfactory Bronze Medal awarded for this at World's Fair, Chicago, 1893. Price, strong, pot grown plants, **$4.00 per doz.; $25.00 per 100.**

CAPTAIN P. DE SUZZONI.—The best yellow Canna for bedding introduced so far. It has almost as large a flower as Mme. Crozy, with a very large spike of bloom, and is slightly mottled with scarlet. The scarlet markings are such, however, that instead of detracting, as is usual with most of the yellow Cannas that have been so marked heretofore, it intensifies, if anything, the brilliancy of the yellow. It has a distinct habit of growth, the foliage very nearly approaching the banana. Bronze Medal awarded us for this at the World's Fair, Chicago, 1893.

EGANDALE.—Foliage dark maroon and green, very similar in coloring to the old Robusta Perfecta, although more erect in habit; very compact, throwing up numerous heads of bloom which rank with the best in quality, both in size of the heads and quality of the flower; color, bright cherry Will be particularly sought after, as it is undoubtedly the best dark-leaved sort at the present time for outdoor bedding. Bronze Medal awarded for this at World's Fair, Chicago, 1893.

J. D CABOS.—Dark greenish maroon colored foliage with a bronze metallic lustre; flowers bright orange apricot, sometimes brightened with a pinkish tinge; one of the most distinct of all Cannas, and one of the finest, being a fine grower and a very early, profuse, continuous bloomer. Flowers of the largest size and of a color that is very pleasing, and there is nothing similar One of the best all-round Cannas introduced to date. Bronze Medal awarded us for this at World's Fair, Chicago, 1893. **$2.50 per doz. only.**

PAUL BRUANT.—One of the freest blooming sorts of all, throwing flowers well above the foliage; the color is very distinct and conspicuous—an exceedingly brilliant orange-scarlet, satiny in texture, that lights up and seems to reflect the sunlight—an intense color. Large heads of flowers of the largest size; of dwarf habit. Bronze Medal awarded us for this at World's Fair, Chicago, 1893. **$2.50 per doz. only.**

COUNT HORACE DE CHOISEUL.—Very dwarf, with close compact habit and large sized flowers; beautiful deep carmine color; a fine pot-plant and a fine bedder, particularly valuable on account of its dwarf habit, beautiful color and good-sized flowers. Bronze Medal awarded us for this at World's Fair, Chicago, 1893.

PRESIDENT CARNOT.—Orange-scarlet suffused with pink; a beautiful color, good-sized heads with large flowers; foliage, brilliant chocolate-maroon; one of the finest dark-leaved sorts, distinct and good.

Price of the 6 preceding sorts, strong pot-grown plants, **$2.50 per dozen; $15.00 per 100.**

ALPHONSE BOUVIER.—This is the grandest Canna for bedding out of doors introduced up to this time. It is a very luxuriant grower, growing considerably taller than Mme. Crozy, throwing up flower-stems more freely than that variety. In good ground and under good cultivation the plant will grow eight feet It begins to bloom very early and is one continuous mass of crimson the entire season. The tips of the shoots are surmounted by immense clusters of bright crimson flowers of the very largest size, and nothing can exceed their brilliancy. It has a peculiar habit of drooping the flower-cluster a little as the second flowering shoot begins to push above the first, and the shoots flower two, three or more times, one after the other, a large plant in bloom sometimes having on it as many as thirty or forty of these large brilliant clusters of flowers. Grand is the only word that describes this variety. For general bedding purposes it surpasses Mme. Crozy. Upon being tried the past season this was questioned, but trial has convinced even the most skeptical that no other variety approached it for grandeur and effective ness when bedded in masses. As a pot-plant for greenhouse cultivation it is not so desirable on account of its taller growth. Bronze Medal awarded us for this at World's Fair, Chicago, 1893.

FRANCOIS CROZY.—This variety is identical with Mme. Crozy in habit and general style of growth, but the flowers are bright orange bordered with a narrow edge of gold, one of the most desirable shades that could be secured. The plants are somewhat more dwarf than Mme Crozy, and are fairly covered with flowers. Bronze Medal awarded us for this at World's Fair, Chicago, 1893.

MADAME CROZY.—Flowers flaming scarlet bordered with gold. This is now well known, and is still an ideal sort in every way. We have made a specialty of this for the past three seasons, and no plant we have ever sold has given such universal and unqualified satisfaction. In order to give an idea of the large size of these flowers, we had a painting made, showing the actual size of the flowers and their beautiful coloring; we will be pleased to send this free to any one who may not have received it; it is no exaggeration whatever, giving the actual size and the vivid and beautiful coloring of Mme. Crozy. When the large size of the flowers and the large heads of bloom are taken in connection with the freedom with which it blooms, it makes one of the most attractive plants for bedding that it is possible to conceive of Bronze Medal awarded us for this at World's Fair, Chicago, 1893.

PAUL MARQUANT.—One of the most distinct of all and one of the most beautiful. Those who have seen it in our houses and at the World's Fair have considered it preferable to any other variety, not excepting Mme. Crozy, on account of its beauty and profusion of bloom, and no variety throws so many flower stems as this. The individual flower is larger than any other, and the flower-spike very large, each flower standing out separately by itself. The flower is as fine as the finest Orchid. The color is very hard to describe to give any adequate idea of how beautiful a shade it is. It might be described as a bright salmon with a carmine tint. The flower has a silvery lustre, which glistens and lightens it up with a silvery sheen, making the salmon of the flower very brilliant. Some have described it as apricot—a shade that is so fashionable at the present time. For greenhouse culture it is one of the finest of all, as the growth is not so tall as the preceding sorts. Bronze Medal awarded us for this at World's Fair, Chicago, 1893.

STAR OF 1891.—More dwarf than Mme. Crozy and valuable on this account. A mass of scarlet when it blooms, but the individual flowers are not nearly as perfect as Mme. Crozy. It is an elegant pot-plant, and will bloom in the house in the winter splendidly, for which purpose it is admirably suited. Its attractiveness and ease of culture, certainty of doing well, etc., make it a plant a florist can recommend, knowing it will please the buyer every time.

GEOFFROY ST. HILAIRE.—Best dark-leaved Canna that can be offered cheap. Dark maroon colored leaves with a dark metallic or bronze lustre Flowers light salmon scarlet.

MADAME CROZY.—Flowers flaming scarlet bordered with gold. This is now well known, and is still an ideal sort in every way. We have made a specialty of this for the past three seasons, and no plant we have ever sold has given such universal and unqualified satisfaction. In order to give an idea of the large size of these flowers, we had a painting made, showing the actual size of the flowers and their beautiful coloring; we will be pleased to send this free to any one who may not have received it; it is no exaggeration whatever, giving the actual size and the vivid and beautiful coloring of Mme. Crozy. When the large size of the flowers and the large heads of bloom are taken in connection with the freedom with which it blooms, it makes one of the most attractive plants for bedding that it is possible to conceive of Bronze Medal awarded us for this at World's Fair, Chicago, 1893.

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

ORGANIZATION is the order of the day and the action of the wholesale commission men in taking steps to form an organization through which they may better serve their mutual interests, is certainly wise. The meeting which they will hold at Atlantic City next August should be attended by every commission dealer in the country. Good invariably results from the bringing together in this way of those with mutual interests. Let no one imagine that such an organization will be inimical to the best interests of the whole trade. As regards "equalization of prices," while by united action something may be done to lessen the disastrous effects of the gluts that occur at times, no organization however strong can make it possible to equalize to any appreciable extent the prices of such perishable stock as flowers. So no one need fear that prices may be manipulated by the proposed organization, and surely much good may be accomplished in other directions. Would it not be of value for each member of the association to be advised daily of the condition of the market in the various large cities? This could be readily and economically done through the medium of such an association. Let each city report daily by wire at a stated hour to the secretary of the association, he to at once forward same to each of the other cities represented, this to be there manifolded and copies distributed to each member entitled to same; or he could wire direct to each if preferred. The expense of either method would be very little.

THE MOST RECENT PUBLICATION issued by the Missouri Botanical Garden is a monograph on North American species of Sagittaria and Lophotocarpus, by Jared G. Smith. It contains 38 pages of reading matter and 29 excellent plates, and gives minute descriptions of these variable and interesting aquatic plants. It is printed in advance from the sixth annual report of the Garden.

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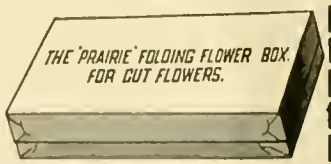

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NOTICE.
Chicago Flower Exchange.
At a special meeting of the Stockholders of the Chicago Cut Flower Exchange, held at No. 45 Lake Street, Saturday morning, April 28th, it was resolved to discontinue the business. All persons having claims against the Chicago Cut Flower Exchange are requested to present same at once, and those indebted to said Exchange are requested to make payment without delay to
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Sweet peas	.50@ .75
Mignonette	1.00@ 2.00
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Smilax	6.00@10.00
Asparagus	50.00
Adiantum	1.00

BOSTON, June 2.

Roses, Niphetos, Gontier	2.00@ 3.00
" Perle, Sunset	2.00@ 4.00
" Bride, Mermet	2.00@ 5.00
" Jacqs, Brunner	5.00@15.00
Carnations	1.50@ 2.00
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Sweet peas	.50@ 1.00
Adiantum	1.00
Smilax	12.00@15.00
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Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watteville, Hoste	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 5.00
" Kaiserin, Bridesmaid, Testout	5.00@ 8.00
" Belle, Beauty	10.00@25.00
" Jacqs	10.00@15.00
Carnations, fancy	2.00@ 3.00
" good ordinary	.75@ 1.25
Valley	3.00@ 4.00
Yellow daisies	4.00
Mignonette	1.00
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Harrisii lilies	6.00@ 8.00
Sweet peas	.50@ 1.00
Cornflower	.50@ .75
Paeonies	4.00@ 6.00
Cattleyas	40.00
Orchids	15.00@40.00
Smilax	12.00@15.00

CHICAGO, June 5

Roses, La France, Bride, Mermet, Wootton	3.00@ .400
" Meteor, Bridesmaid	4.00@ 5.00
" Perle, Gontier, Niphetos	2.00@ 3.00
" Beauty	12.00@18.00
Carnations, long	1.00@ 1.50
" fancies	2.00@ 3.00
Harrisii, Longiflorum	8.00
Mignonette	1.00
Sweet peas	.40@ .50
Gardenia	1.00@ 2.00
Smilax	15.00@18.00
Adiantum	1.00@ 1 24

CINCINNATI, June 4.

Roses, Beauty	10.00@25 00
" Mermet, Bride	3.00@ 4.00
" La France	5.00
" Perle	2 00@ 3.00
Carnations	1.00@ 3.00
" short	.75
Callas, Harrisii	6 00
Sweet peas	1.00@ 1 25
Valley	2.00@ 3.00
Smilax	15.00
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, June 4.

Roses, Perles, Niphetos, Wootton	2.00@ 3.00
" Bride, Mermet, Bridesmaids	3.00@ 4.00
" Meteors, Jacqs	4.00@ 6.00
" La France, Albany, Hoste	2.00@ 4.00
" Beauty	5 00@15.00
Sweet peas, colored	.35@ .50
" " white	.75
Coreopsis	.50@ .75
Carnations, long	1.00
" short	.50
Adiantum	1.00
Smilax	15.00@
Ferns, common, per 1000	$1.25

BUFFALO, June 4.

Roses, Beauties	15.00@25.00
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" Meteor	5.00@ 6.00
" Gontier, Perle, Hoste	5.00@ 6.00
" Cusin	5.00@ 6.00
Callas, Harrisii	10.00
Carnations, long	2.00@ 2.50
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Seed Crop Report From Waterloo, Neb.

Our spring started in fully two weeks earlier than usual, with the land in excellent condition for plowing and planting. Corn, melons, squash and pumpkins were gotten into the ground as rapidly as possible and a good stand of everything was obtained.

On the night of May 19, we experienced a severe freeze that injured corn, potatoes, small grain and fruit, and which destroyed all vines that were out of the ground. Replanting was immediately made but in nearly all cases the seed has remained in the ground with no showing of germination up to date.

On the night of May 29, we had a small local shower that moistened the surface of the ground; it did not extend one-half an inch below the surface and did not reach the seed that had been planted. Still the rain that did fall although but little may do some good. Cucumber has not all been planted, the ground being too dry. Should an early frost come this fall the squash and pumpkin crop will be very light if not a total failure; much depends on the balance of the growing season.

The freeze referred to injured all corn but we note that it is coming up again and will not require general replanting. The stand in most cases is fairly good. The grasshoppers troubled us to quite an extent last season but from present indications it was nothing to be compared with the damage we will in all probability suffer this year. *Millions* of young grasshoppers can be seen now; never before in such numbers at this season of the year.

The acreage of sweet corn and vine seeds planted in Nebraska this year is not more than one-fourth of the area planted last season. Growers have learned a severe lesson in regard to the planting for surplus crops over and above the required quantities with which to fill contracts. They have discovered that the seed trade have no disposition to help them by taking surplus crops off their hands unless at a sacrifice of value which means loss to the grower; hence the caution used in planting excess acreage this season.

Taking into consideration the reduced acreage and the very unsatisfactory present condition of crops now existing, together with the far from promising future outlook, and it would seem as though prices must rate higher this coming fall than has been the case for several years past. GROWER.

A NEW RACE of dwarf sweet peas is hopefully predicted in the novelty lists o the near future.

THE TEXAS SEED CO. of Waco, Texas, is now in the hands of a trustee, who will close out the business. More particulars are expected later.

A NEW FEATURE of "Landscape" advertising consists of large white wooden letters placed flat on sloping grassy banks in view of passing trains. The use by seedsmen of large sign boards along leading suburban lines out of New York City is increasing.

Our buyers will visit Holland, Southern France and Bermuda during the month of June, and orders placed with us now will have most careful personal attention by them.

IMPORT BULB PRICES.

ROMAN HYACINTHS, and all French Bulbs.
LILIUM HARRISII AND DUTCH BULBS.

NOW is the time to order. We are quoting the lowest rates of the season.

NEW YORK: 26 Barclay Street. VAUGHAN'S SEED STORE 146-148 W. Washington St., CHICAGO.

Established 1830.

R. VAN DER SCHOOT & SON,
HILLEGOM, - HOLLAND,
Largest Growers of
HYACINTHS, TULIPS, NARCISSUS,
SPIRAEA, LILIES OF THE VALLEY, ETC.
HEADQUARTERS FOR HIGH GRADE FORCING BULBS.
Wholesale Importers should write us for Prices.
OUR NEW TRADE LIST NOW READY.

VAN ZONNEVELD BROTHERS & CO.
SASSENHEIM, - HOLLAND,
—GROWERS OF—
HYACINTHS, TULIPS, NARCISSUS, ETC.
Now ready to quote our lowest prices for Wholesale Importers.

Orders Booked Now



for Future Delivery:
Lily of the Valley, forcing pips; Roman Hyacinths, Narcissus, Spiræa, and all forcing bulbs. Azalea, Rhododendron, Rosos, etc., plants. Address
August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. New York.

PITCHER & MANDA
are now prepared to quote the *Lowest Import Prices* on all kinds of
BULBS FOR FALL PLANTING,
and prospective buyers would do well to secure our prices before placing their orders.
We have made specially advantageous contracts this year, which places us in a position to offer the very best grade of bulbs at the lowest possible rate. If you are a buyer of forcing bulbs, send us a list of your quantities for estimate.
UNITED STATES NURSERIES,
SHORT HILLS, N. J.

LILY OF THE VALLEY BULBS.
OSCAR KNOPFF & CO., Erfurt, Germany.
Seed growers to H. M., the Emperor of Germany.
Very BEST Hamburg and Berlin qualities, 3 years old, for forcing.
For particulars apply to
C. B. RICHARD & CO., AGENTS,
61 Broadway, NEW YORK.

Hulsebosch Brothers,
OVERVEEN, near Haarlem, HOLLAND.
Bulbs AND Plants
We are now prepared to quote lowest possible prices for next July, August and September delivery.
HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.
After May 1, '94, address will be ENGLEWOOD, N. J.

PRIMROSE SEED
PUT UP SPECIALLY FOR FLORISTS.
FIFTEEN SORTS.
Large flowers, fringed; brilliant colors.
Price per packet of 400 seeds, $1.00.
HENRY S. RUPP & SONS, Shiremanstown, PA.

SEEDS! PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

PLEASE mention the AMERICAN FLORIST every time you write to an advertisers.

WINTER FLOWERS

With the present low prices of Bulbs and the increasing desire for flowers among people, a great deal more ought to be done in the Bulb line.

Ten Bulbs of one variety of Hyacinths or Tulips in a pan make desirable window decorations and give a big show for little money. Large quantities of these pans are disposed of in the Boston and New York markets throughout the winter and spring.

Fitted into pretty celluloid baskets or other receptacles and encircled by ribbon of appropriate color, they are great favorites in New York City as Easter gifts.

In nearly all the largest cities the parks have been planted with spring Bulbs, this should also be done in private gardens. Nothing is handsomer on the lawn than a well arranged bed of Hyacinths, Tulips or Crocus.

It is a favorable opportunity for Florists to drum up a trade in this line.

SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE, near Haarlem, **HOLLAND,**

Offer HYACINTHS, TULIPS, DAFFODILS

And all other bulbs for forcing and outdoor, in extra fine quality, at very low rates.

PLEASE ORDER SOON. ASK FOR OUR 1894 CATALOGUE.

CYCLAMEN SEEDS,
European strain.

LILIES OF THE VALLEY,
Berlin and Hamburg Pips.

FLOWER SEEDS for Fall delivery.

METAL WREATHS.
All at Import Prices.

SCHILLER & CO.,
Commission Seed Merchants,
122 E. 23rd Street, NEW YORK.

Please make us offer of all kinds of Seeds and Bulbs, we will sell it for you.

DUTCH BULBS.

ELDERING BROTHERS,
of OVERVEEN, HOLLAND,

One of the oldest and most reliable Dutch houses, offer the best of facilities to American buyers, having a resident Agent in New York thoroughly posted on this stock and who will make all customers' entries, with quick deliveries in good order, from New York City. Latest reduced price list sent free.

JOHN W. ELDERING, 78 Barclay Street, NEW YORK.

P. VOS & CO., SASSENHEIM, HOLLAND,
GROWERS OF
Hyacinths, Tulips, Crocuses, Narcissus, etc.

WE ARE ABLE TO QUOTE THE LOWEST PRICES FOR WHOLESALE DEALERS.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

SMILAX, nice plants in 2¼-inch pots, $2.00 per 100; $15.00 per 1000.
Transplanted Seedlings, $1 per 100; $8 per 1000.
A few hundred Roses—Meteor, Perle and Hoste, 3-inch, ready for a shift, $6.00 per 100.
JOSEPH E. BONSALL, Wholesale Florist, Salem, O.

ALTERNANTHERAS.
Red and Yellow, good size, $2.50 per 100.
McCREA & COLE, Battle Creek, Mich.

Cleveland.

Cool cloudy weather following several weeks of bright warm weather had the effect of shortening up all supplies for Decoration Day. There being very few outdoor flowers the greenhouses were called on almost entirely for the needed supply.

The call for flowers from out of town exceeded that of any former year, and the wholesale shipping trade was excellent. The greatest demand, as usual at this date, being for carnations, and as nearly all the crops were off, not one-half the orders could be filled. There were plenty of good roses to meet all demands, also some very fair tulips, daffodils and hyacinths from cold storage, but there was very little demand for bulb flowers, they do not catch the popular fancy after their season is over and it hardly pays for the trouble and additional cost to hold them over. L. F. D.

200,000 ROSES 200,000

Nice stock from 2½-inch pots.

	Per 1000	Per 100
PERLE	$25.00	$2.80
SUNSET	25.00	2 80
BRIDE	22.50	2.50
MERMET	22 50	2.50
GONTIER	22.50	2 50
HOSTE	22.50	2.50
MARECHAL NIEL	25 00	2 80
LA FRANCE	24 00	2 75
WHITE LA FRANCE	24.00	2.75
ALBANY	24 00	2.75
METEOR	22.50	2.50
WATTEVILLE	22.50	2.50
SOUPERT	22.50	2.50

And all standard varieties in Hybrids, Teas, Hybrid Teas, Climbers, Polyanthas, etc, etc. Strictly our own selection, $20.00 per 1000; $2 25 per 100. Same from 4-inch pots, $6.00 per 100.

Send in your lists for prices.

TERMS CASH WITH ORDER.

CUT SMILAX, 10 cents per String.

THE NATIONAL PLANT CO.,
Dayton, Ohio.

AMERICAN BEAUTIES.

Strong plants from 2½-inch pots, $50.00 per 1000.
From 3-inch pots, $70.00 per 1000

TESTOUTS.

From 3-inch pots, $60.00 per 1000.

J. T. ANTHONY,
2205 Michigan Ave., CHICAGO.

ROSE PLANTS.

6,000 AM. BEAUTIES, 4-inch pots,	$90.00
2,000 BRIDES, 3½-inch pots,	45 00
1,000 PERLES, 3½-inch pots,	45.00
1,000 MERMETS, 3½-inch pots,	45.00

Cool grown, for our own use.

All very choice. Have never seen our Beauties equaled. Would be cheap at $125 00. Will pay for themselves before others bloom, and always lead.

BRANT & NOE, Forest Glen, Ill.
or L. M. NOE, MADISON, N. J.

Mention American Florist.

ROSES.

Fine thrifty plants, from 2½-inch pots.

	Per 100		Per 100
SENATOR McNAUGHTON,	$10.00	LA FRANCE,	$5.00
BRIDESMAID,	7.00	ALBANY,	5 00
PERLES,	4 50	CLIMBING PERLE,	5.00
BRIDES,	4 00	TESTOUT,	8.00
MERMETS,	4.00	KAISERIN Augusta Victoria,	6.00
METEOR,	5.00	WICHURAIANA,	6.00

Also a large stock of Palms, Araucarias, Ficus, Aspidistra var.

GREENHOUSES: Western Springs, Ill. VAUGHAN'S SEED STORE, CHICAGO: 146-148 W. Washington St.

YOUNG ROSES.

Am. Beauties,	in 2 and 3-inch pots,	$5 00 and	$6 00
Testout,	" " "	5 00 and	6 00
Meteors,	" " "	3 00 and	4 00
Brides,	" " "	3 00 and	4 00
La France,	" " "	3 00 and	4 00

We will quote you special price on Beauties in lots of 500 or more.

REINBERG BROS., 51 Wabash Ave., Chicago.

Roses. Roses. Roses.

Perle, Niphetos, Mermet, Bride, Testout, Victoria, Meteor, La France, Albany, Gontier, White La France, Soupert and Bridesmaid, 2 1-2 inch pots, $5.00; 3-inch pots, $6.00 per hundred.

AMERICAN BEAUTY, 2 1-2 inch, $6.00; 3-inch, $8.00 per hundred.

THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

ROSES, all the very best both new and old.

CHRYSANTHEMUMS, the cream of all the long list now offered, in extra fine plants now ready for immediate delivery. JOHN N. MAY, Summit, New Jersey.

Brides, Bridesmaids, Perles, Meteors, Hostes, From 2, 3 and 4-in. pots. **ROSES** Cusins, Niphetos, Testouts, La France, Mermets,

Address for quotations T. W. STEMMLER, VILLA LORRAINE ROSERIES, Madison, N. J.

Sole Agents for U. S. for Chas. Macintosh & Co., England, Inventors of Vulcanized India Rubber, Extra strong greenhouse hose to withstand high pressure. ¾-in., 3-ply, 15c. per foot in 50 feet lengths.

Roses. Roses.

In 2½, 3 and 4-inch pots.
ALL THE LEADING VARIETIES FOR FORCING.
Write for prices.

Flushing, N. Y. JOHN HENDERSON CO.

Surplus Stock 50,000 Roses

We still have above number in prime condition and want to dispose of same at once for cash. It will pay every florist to plant out one or two thousand of these Roses, the cut flowers will more than pay the cost.

For $20 we will Express you 1000 Roses in following sorts—quality and safe arrival guaranteed: Cl. de Lahanthe, Bride, Mermet, Perle, Schwartz, Devoniensis, Therese Levet, Niveus, Golden Gate, Papa Gontier, Dijon, White, Pink and Red La France, Meteor, Mrs Degraw, W. A. Richardson, Pradel, Christine de Noue, P. Krueger, Cels, Queens Scarlet. Outside of these have 50 more sorts; leave selection to us and we can furnish at same figures. Send your lists to be priced.

Address NANZ & NEUNER, Louisville, Ky.

Mention American Florist

ROSES.

Mermets, Cusins and Watteviles, $3.50 per 100. Bridesmaids, Brides, Hoste, Gontier, Meteor and La France, $1 00 per 100.

Strong American Beauties, $6.00 per 100; $50.00 per 1000. Well rooted Beauty cuttings, $3 00 per 100.

Special prices on quantity. Let me price your lists. Cash with order.

ROBERT F. TESSON,
West Forest Park, St. Louis, Mo.

ROSES. ROSES.

Brides, 2½-inch		$3.50 per 100	
Mermets,	"	"	"
Perles,	"	"	"
Sunsets,	"	"	"
La France,	"	"	"
Albany,	"	"	"
Niphetos,	"	"	"
Wootton,	"	4.00	"
3½-inch of above varieties		$6.00 per 100	
Ageratum May Flower (best blue), 2½-inch pots		$2.00 per 100	

BAKER BROS.,
P. O. Box 72, KANSAS CITY, MO.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

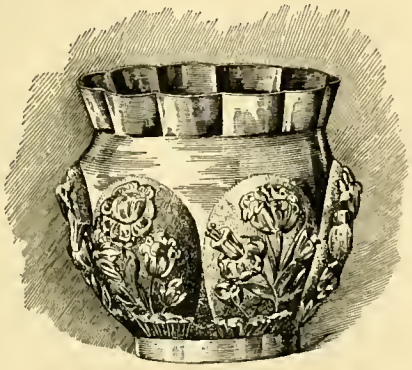
WINTER FLOWERING ROSES



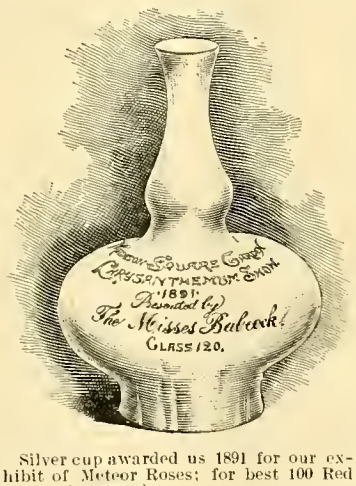
We devote more than half of our greenhouses to the production of Winter Flowering Roses, and have the finest range of greenhouses in this country for that purpose; they contain every improvement in regard to durability and labor-saving appliances; the rafters and purlins are of wrought iron, securing very light roofs and extreme durability. The water is warmed in very cold weather before using by the exhaust steam from the steam-pump that supplies the houses with water; liquid manure is all pumped by steam, and everything to secure the highest development of our stock, and at the least expense, has been sought for and secured, and our new range of iron rose houses, covering two acres of ground, and **devoted exclusively to the production of cut roses,** are conceded by all who have examined them to be without question the finest range of greenhouses devoted to rose culture in the United States, and we believe, in consequence, we have exceptional facilities for supplying strong young healthy rose stock at the lowest possible prices. These houses are worth examination, as they are conceded to be model houses in every way. Visitors are always welcome.

AMERICAN BEAUTY.—The largest rose and the most vigorous growing by far among continuously blooming roses, throwing up very strong stems from the base of the plant, every shoot terminated with a single flower, which is of the largest size. Color, deep rose. In foliage and size of flower it resembles the large Hybrid Perpetual or Hardy class, and is similar to Magna Charta or Gloire de Paris. It is as fragrant as the most fragrant of Hardy roses, which, coupled with its vigor, large size and beautiful color, long stems and continuous bloom, places it at the head of Winter blooming roses. It requires skill and favorable conditions to flower it in perfection, but when successfully flowered no other rose approaches it for beauty or profit. 2¼-inch pots, **$10.00 per 100; $90.00 per 1000.**

MME. CAROLINE TESTOUT.—This rose has attracted more attention than any rose sent out since the American Beauty. It was the winner at the Madison Square Garden Chrysanthemum Show of the LANIER SILVER CUP for the best new seedling of European origin not exhibited previous to 1892, and it was constantly surrounded by an admiring group throughout the show. It is a Hybrid Tea, with a decided, though delicate tea fragrance. It is a very vigorous grower, throwing up heavy bottom shoots in profusion, and is also a remarkably free bloomer for so large and fine a rose, producing scarcely any blind wood. In form it is very similar to La France, and in size much larger. In color it is simply unequalled among pink roses, being of a wonderfully clear brilliant pink, of one solid tone, without shading of any kind. It needs no special treatment, and for a high class rose of easy culture, it is certainly unequalled. Large roses that can be cut in the half-blown state, like Beauty, are becoming yearly more fashionable and the popular taste seems to be growing in this direction; we have needed a good pink rose to meet this demand, and believe that Mme. Testout will fill the bill. Mr. Ernst Asmus says: "This is the best Hybrid Tea the French have ever sent out." Mr. W. W. Coles says: "I have grown many varieties of roses, but have never seen one with so many good qualities as the above. I shall be very much mistaken in my prediction if we do not find, within a few years, that there are a thousand Testouts grown for every hundred La France." Mr. Robt Craig says: "I want to tell you that's a nice thing. The color of Testout is its great point. In that respect it is far ahead of La France. It will keep in the cellar for three or four days, and as the color fades it keeps a pleasant shade." Growers, Retailers and Flower Buyers are alike enthusiastic in its praise, and in our opinion this rose is destined to win a high place and prove very profitable to the grower. First premium awarded us for this variety, N. Y. Chrysanthemum show, Fall, 1893. Price, 2¼-inch pots, **$8.00 per 100, $75.00 per 1000.**



Silver Cup awarded us for Meteor Roses, exhibited at Madison Square Garden, 1892, for best 25 Red Roses of any variety.



Silver cup awarded us 1891 for our exhibit of Meteor Roses; for best 100 Red Roses of any variety.

KAISERIN AUGUSTA VICTORIA.—A new rose of German origin that is attracting a great deal of attention and promises to be of great value. In color it is midway between Bride and Mme. Hoste, a delicate cream white. The buds are both larger and longer stemmed than those of Bride. The habit of the plant is singularly strong, vigorous and healthy; the flower is most deliciously fragrant. Winner of the Silver Cup offered by the F. R. Pierson Company, at the Madison Square Garden Chrysanthemum Show for the most promising forcing rose never before exhibited at a New York show. First premium New York Chrysanthemum Show, Fall, 1893, awarded us for this variety. Price, 2¼-inch pots, **$8.00 per 100; $75.00 per 1000.**

BRIDESMAID.—(Originated by Frank L. Moore.) This is the rose we have all been waiting for—*a Mermet whose color is constant* through all kinds of weather. Mermet has always been acknowledged as more nearly approaching perfection than any other pink rose, its one fault being its tendency to lose color in dark weather. In the *Bridesmaid* we have it with this one fault corrected, and every good trait unchanged. It is identical in form, habit of growth and freedom of bloom with its parent, and, unlike Waban, it never produces malformed buds. Many of the largest and most wide-awake growers about New York intend to discard Mermet and plant Bridesmaid in its place the coming season, and we believe results will prove their wisdom, as its uniform good color causes it to bring a correspondingly uniform good price, and hence makes it much more profitable. The past winter it has brought fifty per cent more than Mermet; when it is realized that it is fully as free of bloom, no more need be said on this point. We won *First Prize* two successive days at the Madison Square Garden Chrysanthemum Show, fall of 1892, for this variety. Mr. T. J. Slaughter, who has been a large and very successful grower of Mermet, voices the universal verdict when he says: "It gives me great pleasure to give the Bridesmaid my hearty recommendation; from my experience with it this year *I am convinced it will supersede the Mermet entirely*, owing to its better color and greater market value. I intend to give it all the room I can possibly spare. I think growers will go strong for it next year." 2¼-inch pots, **$8.00 per 100; $75.00 per 1000**

METEOR.—The finest crimson rose for winter blooming; very double and very dark velvety crimson scarlet, its only fault being a tendency to become black during the shortest days of winter, but when well grown it is not excelled; a superb variety. We grow this rose very largely, and won a Silver Cup at the Madison Square Garden Chrysanthemum Show, for the best twenty-five blooms, also both first and second prizes for the best twelve blooms. We are recognized as having the best stock about New York, and are headquarters for this variety. In 1893 we again received First Premium for our exhibit of Meteor at the New York Chrysanthemum Show, and also a **Bronze Medal at the world's Columbian Exposition in Chicago,** for our exhibit of this variety. 2¼-inch pots, **$6.00 per 100; $55.00 per 1000.**

SOUVENIR DE WOOTTON.—A very valuable scarlet-crimson, much like Jacqueminot in size and color; an easy variety to flower and has a delicious fragrance. Throws good stems, but frequently in clusters, in which case, by disbudding, the size of the flower is largely increased. The best crimson Winter-flowering rose at the present time **"for general use,"** all things considered. 2¼-inch pots, **$6.00 per 100; $55.00 per 1000.**

MME. CUSIN, PERLE, MERMET, NIPHETOS and BRIDE, $5 per 100; $45 per 1000.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, N. Y.

Toronto.

Business this last week has not come up to what is generally expected during the last week in May, but the kind of weather that is being dealt out to us just now is not that which induces people to turn their attention to "the flowers that bloom in the spring, tra-la." The "oldest inhabitant" however is having a good time searching for precedents for so much cold, wet weather at this time of year; for my own part I don't believe he will find any. In some of the parks and gardens they are trying to do a little bedding out between the showers, but no great quantity has been put out yet and blanks have been left for coleus to be put in when the warm weather arrives, which to all appearances may be some time before August.

The chestnut and mountain ash trees, of which there are large numbers planted in the streets here, are in full bloom just now and the cool dull weather is allowing them to last in full beauty for a longer time than usual. I have come to the conclusion however that the horse chestnut is not a suitable tree for a general city street shade tree. The foliage is so dense that no grass will grow on the boulevards under it and it makes it too dark in houses near by, and in the fall it is an endless source of temptation to the small boy who prowls round with his pockets full of rocks. As a broad avenue tree however it is unsurpassed. I have in my mind's eye now an avenue, or public promenade rather, in Orleans, France, about three quarters of a mile long with 8 or 10 rows of chestnut trees with every alternate row of the "scarlet" variety. The effect is something immense when in full bloom.

E.

San Francisco.

The creditors of the firm of Carbone & Monti have to meet in court June 11th and present their claims. Carbone intends to start in business now in Ocean View.

It is rumored that a company of Chinese will open a retail store here soon.

The market is overstocked with stuff so that business is dull. M. Lynch is bringing in the finest sweet peas, and Portias. Dan Driscoll also brings in good roses and carnations.

W. S. C.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

CROPP'S
RIESEN PENSEE
neue erste fertig mitte Juni. Blumen uber 3 zoll im Durchmesser, schone Form, meist bunte Farben, von unübertrefflicher Qualität. 1000 Korn $1.00; 5000 Korn $4 in Briefmarken oder Post Anweisung.
CARL CROPP,
Erfurt, Germany.

"HELEN KELLER"
The new Carnation; pure white, delicately marked with red.
Price for well Rooted Cuttings:
$3.00 per dezen; $12.00 per 100; $25 00 per 250; $90.00 per 1000. 500 at 1000 rate. Orders may be sent either to
JOHN N. MAY, Summit, N. J.
EDWIN LONSDALE, Chestnut Hill, Phila.

THE COTTAGE GARDENS,
Queens, Long Island, N. Y.
WHOLESALE CARNATIONS.

NEW CARNATIONS
Ready to ship at once from flats and pots.
2000 Uncle John..... $10.00 per 100; $75.00 per 1000
2500 The Stuart..... 10.00 per 100; 75.00 per 1000
700 Dinz Albertini..... 6.00 per 100.
2000 Wm. Scott 5 00 per 100; 40 00 per 1000

200 MAJOR BONNAFFON CHRYSANTHEMUMS. $5.00 per dozen; $35.00 per 100.
FRED. DORNER & SON,
LAFAYETTE, IND.

THIS WEEK ONLY!!
NICE CARNATION PLANTS FROM SOIL.

	Per 100		Per 100
White Dove.....	$3.00	Wm. Scott	$ 7.00
Blanche.....	3.00	The Stuart.....	12.00
Garfield	4.00	Uncle John.....	12.00
E. Pierson	4.00	Annie Pixley.....	12.00
Tidal Wave.....	4.00	Helen Keller	12.00
Mrs. Reynolds ...	5.00	McGowan.....	4.00

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS
Rooted Cuttings all sold or planted out. Field plants for sale in the fall.
C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

HEALTHY ROOTED CUTTINGS
Carnations AND Chrysanthemums.
STANDARD VARIETIES.
MARIE LOUISE VIOLET RUNNERS.
SMILAX, 2½-inch pots.
Satisfaction and prompt shipment guaranteed.
SAMUEL J. BUNTING,
Elmwood Ave. & 58th St., PHILA., PA.

CANNAS. Strong Pot Plants

ROBUSTA, fine for foliage.....	@ 6 cents
MME. CROZY.....	@ 9 cents
PAUL MARQUANT.....	@10 cents
ALPHONSE BOUVIER.....	@15 cents

W. A. MANDA,
The Universal Horticultural Establishment, SOUTH ORANGE, N. J.

SEED. . . .
THE JENNINGS STRAIN OF LARGE FLOWERING AND FANCY PANSIES.
New Crop Seed ready June 21.
. . . FINER THAN EVER.
E. B. JENNINGS, WHOLESALE PANSY GROWER
L. B. 251. SOUTHPORT, CONN.

PLANTS.

	Per 100
FUCHSIA, good assortment.....	$2.00
COLEUS, "	1.50
PANSIES, No. 1, "	1.50
GERANIUMS, Bedding, Bronze, Ivy, Silver leaf.	3.00
ALTERNANTHERAS, assorted.....	2.00
BEGONIAS, good assortment	3.00
HIBISCUS, "	4.00
FANCY-LEAF CALADIUM, named	8.00
SMILAX (cut), 5 feet long.....	15.00

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.

Please mention the American Florist every time you write any of the advertisers on this page.

Carnations.
Last call for Annie Pixley; can you afford to go without this beautiful new pink? I do not think you can when you can get 25 well rooted cuttings for $2.50 cash with the order.

Smilax.
Transplanted plants, an honest sample of which will be mailed you on receipt 10 cts. The price is 75 cts. per 100, or $6.00 per 1000, cash with the order.
ALBERT M. HERR, L. B. 496, Lancaster, Pa.

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Pittsburg.

The very inclement weather experienced this week has contributed somewhat to the dullness of trade. It has had the effect of shortening up the supply a great deal and for the past week it has not been equal to the demand. Cut flowers have advanced in price 100 per cent. All out door bloom has been affected by rain and hail and very small quantities have been received. Iris, pæonies, kalmias, and gardenias are in from the south but not in quantity. Bedding plants are of inferior quality but fetch fair prices. Good stuff is at a premium and will fetch more than profitable prices. Most all tender bedding plants that have been planted out will have to be replaced, as the cold rain and hail storm have completely destroyed them. Early tender vegetables have suffered the same way. The seeds have either rotted in the ground or been destroyed after germinating.

Pittsburg and vicinity will remember the last day of May for some time to come. About 5 p. m. we had a hail storm for nearly an hour; not large enough to do any damage to glass, but it stripped foliage from plants outside, and could have been shoveled up by the cart load.

The growers seem to be well satisfied with the season. Decoration Day plants were in great demand, but the plants were inferior quality.

Hartman Bros have no trouble with their stock, as it is first-class. It is handled in the market by Robert Faulk, who always get the top price.

John Bader also reports business satisfactory and stock mostly all sold. The only trouble he says is that he has not enough.

Randolph & McClements have all they can do to satisfy the demands of their customers, and report business as first-class.

A. M. & J. B. Murdoch have been doing a large business and have plenty ahead.

With Decoration Day and quite a demand for funeral work the florists have been kept busy and report flowers scarce. To-day (June 3) is fine and warm and will be welcomed by all after seventeen days of rain. A. J. E.

BUILDING.—Readers who contemplate building additional greenhouses, or remodelling old ones, this summer, will confer a favor by reporting their intentions to us. We are anxious to have as full a record as possible.

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To introduce my American grown Narcissus for forcing by florists I make the following special offer. *Bulbs ready now.*

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NARCISSUS CAMPERNELLE, - -	$.75
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I would like to correspond with any one desirous of going into the business of growing Dutch bulbs in America. I have a stock of 400,000, in 10 to 18 varieties.

South Carolina is the very best section of the U. S. for the growing of these bulbs. I have successfully demonstrated this, and can offer a splendid opening to a man with some capital and familiarity with horticultural work.

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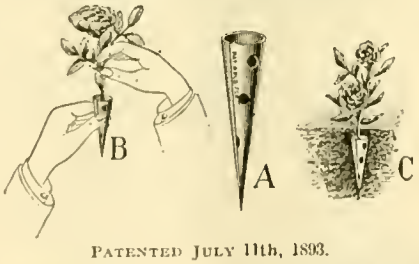
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Will keep set pieces fresh longer, as flower stem is entered deep in the moist moss. Made from solid brass, will not rust, very convenient, saves valuable time and labor. You can stem flowers with these points in one-quarter of the time as when done with toothpicks. Will hold a pansy as well as a calla lily. Manufactured by the Novelty Point Works in 5 sizes, from ⅛ to ½ inch in diameter.

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FOR 1894

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1. The names and addresses of the Florists, Nurserymen and Seedsmen of the United States and Canada, the exact branch of the business each is engaged in being indicated.
2. A separate list of firms that issue catalogues, the space devoted to each branch of the business in each catalogue being also given.
3. A list of the names and addresses of superintendents of leading parks in the U. S. and Canada.
4. A list of the principal cemeteries of America at which the arts of the landscape gardener and florist are used in beautifying the grounds.
5. A complete, alphabetically arranged list of Roses in commerce in America, with class, habit of growth, date of introduction, name of introducer, and brief, accurate descriptions of the flower of each. Synonyms are also plainly given.
6. A complete, alphabetically arranged list of Chrysanthemums in commerce in America, with class, and brief, accurate description of each. Synonyms are noted and varieties that are very popular with American growers are designated by a star, and this year's introductions by a dagger.
7. A complete, alphabetically arranged list of the Carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each.
8. Seasonable Hints for the year, arranged in weeks, written by Mr. William Scott, and covering every detail of a general florist business. This is decidedly the most valuable contribution to the literature of the trade ever published. It is written in a plain, practical way, by a man who knows what he is talking about.
9. A historical sketch of the Society of American Florists from its organization to date, including officers for each year and lists of essays read at each meeting, with other information of interest.
10. A similar historical sketch of the American Association of Nurserymen.
11. A similar historical sketch of the American Carnation Society.
12. A similar historical sketch of the American Seed Trade Association.
13. Similar historical sketches of the Florists' Hail Association of America; of the National Chrysanthemum Society of America; of the Florists' Telegraph Delivery Association.
14. A complete list of all National and Local Trade Organizations, with names and addresses of principal officers, time and place of meetings, etc.
15. Statistics of Commercial Floriculture in the U. S. from the last census.
16. Statistics of the Nursery Industry in the U. S. from the last census.
17. Statistics of Seed Growing in the U. S. from the last census.
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ABOUT 10,000 PLANTS AT THE LOW RATE OF ONLY $3.00 PER 100.

Fine strong plants of Coleus, such as Golden Bedder, Verschaffelti, Queen Victoria; yellow and red Alternantheras, Pyrethrum Golden Feather, Verbenas, single variegated Petunias, dwarf Phlox, Musk, cupheas, Torenia Fourneri, Lobelias, Parlor Ivys.

About 1,000 Trophy Tomatoes grown in 2½-inch pots, Egg Plants.

Also at only $5.00 per 100 Geraniums, fine variety, mixed, in bud, 4 inch pots; Fuchsias, Heliotrope, Scarlet Sage, Lantanas, Japan Pinks, Calendulas, double and single stocks, Moon Vines, 4 inch, $1 per doz. Cash with order only.

Chrysanthemums, strong, mixed clumps, $1.00 per dozen.

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Larger ones, $10.00 per 100.

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COLEUS, 10 kinds by mail.....60c per 100
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ALTERNANTHERA P. Major by mail..... 50c per 100

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An oil plant can be put in now, with as much certainty of its working and proving successful, as a boiler can be set, and by putting a sufficient fire under it, you are certain to raise steam.

This is a subject of vital importance to every florist, having a steam plant, and wishing to economize in firing, and grow No. 1 stock, by being enabled to at all times and in all weathers maintain a steady temperature and without any apparent effort, except to turn on a little more oil and let the fire run.

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Now ready, from 2-inch Pots, strong plants, price, $1.00 per dozen; $10.00 per hundred.

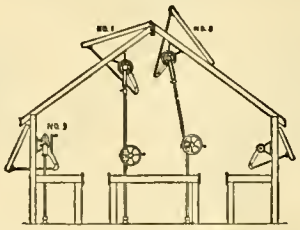
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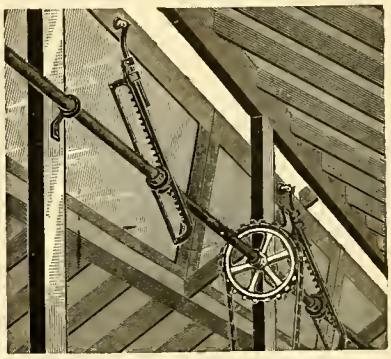
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A Fish Story.

Our Buffalo scribe, like most in the trade, has been sorely harassed of late by foreign foes in the shape of bulb and nursery agents. His habit was to take a trip to Corfu whenever one of these gentlemen appeared, but as they learn a great deal of patience between Buffalo and the coast this excuse was of little use; the traveling man would simply sit down and wait till he got back. Now, however, he has a new scheme; on being signalled that the enemy has hove in sight Great Scott picks up his trusty fishpole, digs a can of bait, and hies to a nearby brook. When the agent arrives the foreman is very sorry, but Mr. Scott has gone off on a fishing excursion, and there's no telling when he will be back. No one, not even a Dutch bulb agent, would wait under the circumstances, and the scheme is a great success. It is said, however, that mistaking the signals one day Mr. S. got back, fishpole and all, before the enemy had vacated the field, and was so much taken aback that he nearly ordered half a million tulips before he collected himself.





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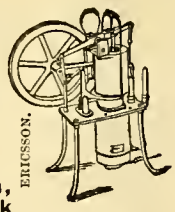
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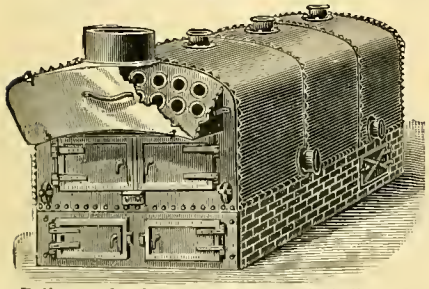
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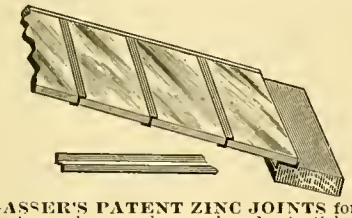
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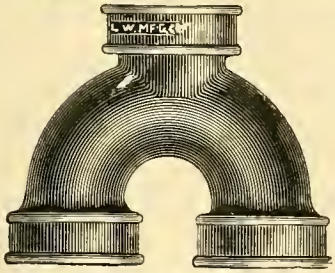
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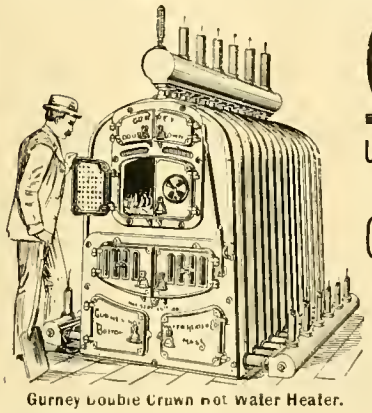
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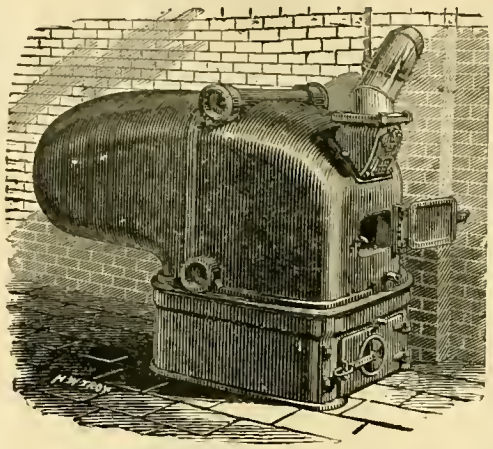
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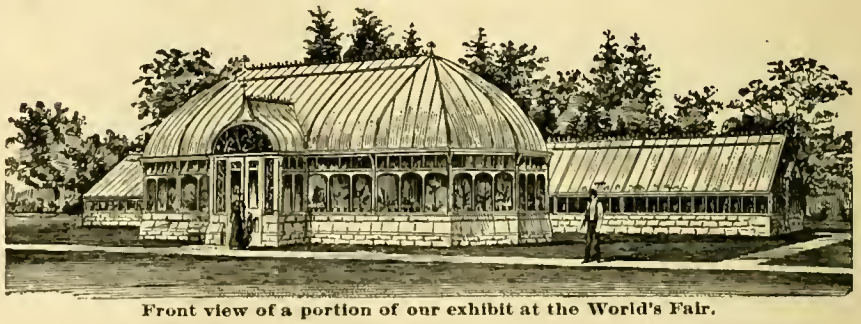
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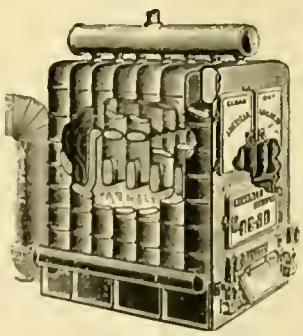
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Vol. IX. **CHICAGO AND NEW YORK, JUNE 14, 1894.** **No. 315**

THE AMERICAN FLORIST

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Address all communications to

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P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

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OF THE

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Members may remit the annual dues ($3.00) to the secretary prior to the meeting, thus avoiding the crowd and relieving the officers on the opening day. Badge for 1894 will be sent by mail to those who remit in advance of the meeting.

Intending members can obtain any information wanted by addressing the secretary.

OFFICERS:

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

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OBITUARY.

DAVID REESE, of the Good & Reese Co., Springfield, Ohio, died very suddenly on June 4 of heart disease. Mr. Reese had many warm friends in the trade who will be deeply grieved to learn of his sudden and entirely unlooked for death.



Coming Exhibitions.

BOSTON, June 20-21. Rose and strawberry exhibition Mass. Hort. Society.

BOSTON, Sept. 5-6. Annual exhibition of plants and flowers Mass. Hort. Society.

CHICAGO, Nov. 3-9. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.

NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex MacLellan, Sec'y, Ruggles Ave.

BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.

PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.

ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.

INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.

PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L. B. 375, So. Denver, Colo.

WORCESTER, MASS., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.

TORONTO, ONT., Nov. ——. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.

MONTREAL, Nov. ——. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.

PROVIDENCE, R. I., Nov. ——. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.

SPRINGFIELD, MASS., Nov. ——. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 John St.

MILWAUKEE, WIS., Nov. ——. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.

HAMILTON, ONT., Nov. ——. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.

Notes.

We said, last week, that Ivory would stand closer planting than other sorts; the variety can be planted five inches apart either way, and will produce beautiful flowers. The foliage of Ivory is much smaller than the others and the roots do not require as much room.

Plants that were propagated during the last of May or first of June can be planted about six inches apart, and should be grown to single stem and bloom. We plant them five inches in the rows, and the rows, which are across the bench, nine inches apart, our only reason for doing this is that we were not provided with as long arms as most of our kindred, to which those who know us can testify, and making the distance between the rows greater makes it easier to tie up the plants. The plants that were propagated in April or previous to that should be given a little more room, about twelve inches, and can be grown to three or four blooms. There are some varieties that will produce much better blooms if grown in this way than on the single stem system, Viviand Morel, for instance. This variety will give just as large a flower and of better color and texture, if grown to three blooms.

Have you cleaned the houses out? and have you thrown out all the rubbish and rotten wood? If you have, then burn some sulphur, and kill all the animal pests that have escaped you. When you do this do it thoroughly, and give them a good dose. We cannot give you any stated quantity to burn per square foot, but to do the job successfully, we burn about two pounds to a hundred foot house. After this give the benches a good coat of whitewash inside.

We still stick to the old way of putting about an inch of green cow manure at the bottom of the benches, notwithstanding that some say it produces a rank growth later in the season. The chrysanthemum is a great eater, and we have found it difficult to get the man that can topdress a bench of these plants with green manure, just as they are beginning to make their growth, without breaking more or less of them, in fact, to tell the truth, we can't do it ourselves. Besides, it is far easier to put the manure in the bottom of the bench, and a little later on you will see how we prevent the rank growth which is not desired. On top of the manure fill in the compost, and put just as much in the bench (that is if they are made four inches deep), as it will hold.

The plants that are in flats or small pots should be now placed where the full glare of the sunlight will strike them, that is, in a frame or a house that is not shaded at all. They will, of course, require a little closer watching as regards watering, for they must never be dry or the wood will harden, and next fall you will have a plant that will be no larger than a pipe-stem at the bottom and as large as your little finger at the top, surmounted by a small flower, for it is almost impossible to force liquid manure through that small hard stem at the base of the plant. But be careful, also, not to overwater, for there are some varieties, Mrs. Alpheus Hardy for instance, that have a weak constitution and are not of strong growth, that will damp off or get diseased, if overwatered. But if you try to grow chrysanthemums in the shade you will certainly draw them, and get a much weaker growth than when grown in the full sunlight.

Now comes the setting the plants. This should be done from the 1st to the 20th

of June. All authorities that have written on this point say set the plants firmly in the ground. This, of course, you will do, but after you have done this, pack the soil down just as hard as you can get it. If the benches will bear you all right, you may be able to do this by treading, but we take a block of wood and a mallet, and make the bed just as solid as we can. By doing this we get, first, fully an inch more of compost (in depth) in the bench, and second, we do not get that rank, weedy growth, which, we all know, does not produce that ideal flower we are looking for. Our friend Lawrence Cotter was the discloser of this to the eastern growers, and we should all be thankful to him for his willingness that we should share in his knowledge. This making of the soil solid will be productive of a much sturdier and stronger plant, which will be much closer jointed, and will not attain nearly the height of a plant grown in a looser soil, and will also produce next fall, a bloom of far better build and more solid and lasting. Mr. Cotter says that he thinks many varieties that are "weak-necked," if grown in a bench where the soil is well packed down, will produce stems that will hold the flowers erect.

ELIJAH A. WOOD.

West Newton, Mass.



Miltoniopsis Bleui Splendens.

This hybrid is the result of a cross between Miltonia vexillaria and Miltonia Roezli, first raised by Mon. Bleu, Paris, and subsequently by Messrs. Veitch, Chelsea, London. Great interest centered in this charming plant apart from its wondrous beauty from the fact that it was the first hybrid raised between these parents. These at that time were commonly known as odontoglossums, hence the name miltoniopsis. The plant illustrated was sold to Mr. Sander by M. Bleu and was afterwards sold to Mr. Ames, a wee bit, two bulbs half an inch in length with four leaves. We have grown it continuously side by side with our vexillariums and find it does well under similar conditions, though we have grown it in a basket. It flowered twice last year making its growths early and flowering last October, and was divided and now (April) has again flowered from three large growths carrying twenty-one flowers. One spike was cut some few days before being photographed. The picture does not do full justice to the flowers. They are nearly four inches across, white with a suffusion of rosy purple in the petals; the lip large and broad with a fan-shaped, reddish brown blotch at the base and in front of the yellow disc, with bright radiating lines spreading over the lips, the lines at the disc being much broader and brighter colored. There are several forms, but when Mr. Dimmock paid us a visit a short time ago he thought our variety was equal to anything he had seen, and he could not resist comparing the plant today and when he tenderly unpacked the mite which he brought over in his valise less than four years ago.

WILLIAM ROBINSON.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Geneva.

We have noticed that carnation Geneva is compared with Portia as to color. Surely there must be some mistake here. Geneva, as we know it, is white striped purple.

The American Carnation Society has its hands full, trying to keep the nomenclature of its patron flower straight. Some people (and florists at that) are careless, others indifferent, so much so as to obstruct progress. But the American Carnation Society, in order to avoid confusion, is not satisfied with anything short of absolute accuracy. E. L.

[Yes, Geneva is described in the list of carnations, as published in the proceedings of the A. C. S., also in the American Florist's Co.'s Directory, as "white, slightly marked purple." It was disseminated by W. P. Simmons & Co., Geneva, Ohio, about the year 1890.—ED.]

Needs of the Commission Business.

[*Read before the Philadelphia Florists' Club, June 5th, by Samuel S. Pennock.*]

In this country the florist's business has grown to an immense industry, and for that reason, and because of the perishable nature of flowers, the best method of disposing of them is an important matter. Flowers are generally sold in one of three ways: By the grower personally to the retail dealer, by a hired salesman, or by a commission merchant. When the grower sells personally to the retailer he gives more attention to the selling and collecting than a hired salesman would, but he cannot attend to his growing as well, which is very apt to suffer in his absence.

Where a salesman is employed, he has not the same interest as an owner in selling, and if he is not honest there is a strong temptation to defraud the owner. If he sells for but one man, which is generally the case, only that one man is really interested in investigating his honesty. Be he honest or dishonest the owner must lose all bad debts contracted by him. In either of these two methods the time of selling is limited, as the seller is only at one store at a time and to find him after he has left is often a very uncertain job. The commission man however can be found at any time at his stand. If the grower or his representative does not sell out on his rounds to the stores the stuff is generally carried home, thus losing all chances of selling it that day. If, after going the rounds, the flowers are left in the hands of another party they are by that time not in first-class condition, being handled and bruised and the receipts, if any, are necessarily small.

Much of this loss might be saved by sending them to a commission man while fresh. A commission merchant sells the greater part from his store when it is well preserved, not injured by exposure or handling from store to store. A supply of good flowers being generally on hand florists are not obliged to lay in a heavy stock on uncertain sales, but can depend more on the wholesale house, and get as they need. If they find towards the middle of the day, or after the morning supply has been bought, that business looks much brighter, or a lot of orders have come in, they can drop into a commission house and supply their needs.

When flowers become stale for florists' use, the street fakirs buy to better advantage to themselves of a commission merchant, having a larger selection than could be obtained from any one individual grower, or in fact from several. Not only does this hold good in the case of fakirs, but to every one does it apply, and this difference will increase as the grower recognizes the superior advantages offered by him. It is true the commission merchant charges a percentage for selling, but loses all bad debts himself. This percentage in more than one case has been less than the loss by bad debts incurred by the owner selling his own flowers, his time and expenses in selling being an additional loss.

If trade is dull at home or the market overstocked, he, better than anyone else can dispose of them in other cities, where flowers may be scarce and trade good. He also has the opportunity of outside trade at all times, which the ordinary salesman does not have. This amounts to considerable, particularly in an article that overstocks the market very easily, as hybrid roses for instance, as the demand oftentimes is limited and other cities would be able to use the surplus to advantage.

The shipping trade of a wholesale house is one of the strong points in favor of sending them, being an outlet which is often better than home trade. He usually has a large number of consignors, each of whom is directly interested in watching his honesty, not one man only, as in the case of a salesman for a grower. If this salesman is proved dishonest he loses his place, but he may get work where pecuniary honesty is not an important factor. If the commission man is discovered to be dishonest by one of his many consignors he is ruined for all, and in addition to losing his character which will be widely known, he may lose his capital, which is always needed in this business. The greater part of his flowers being sold by himself or in his presence, there is not the same chance of loss by dishonesty of employes as in the case of selling directly by a salesman.

Too much cannot be said in regard to the shipping and cutting of stuff, as so many growers do not seem to fully appreciate this very important fact. It often looks as if they did not use their common sense, and did not take the weather into consideration. During cold weather roses oftentimes are cut just as tight, if not tighter, than in warmer weather, in fact this is not the case just with roses alone, but other flowers also. Roses are sometimes shipped so tight that they are not salable for two days afterwards. Carnations and violets are often cut several days too soon, excepting around the holidays, when sometimes they appear to have been cut a week, and standing in water for that time, judging from the appearance and smell of the stems. A great many growers have a very mistaken idea about holding back flowers before the holidays. They hold them just as long as they possibly can, thinking by sending them in at the last moment they will rea



MILTONIOPSIS BLEUI SPLENDENS.

lize big prices, but the flowers are satisfactory to no one, and perhaps result in the loss to the commission house of good customers. Oftentimes flowers are received apparently in good condition, but have been kept possibly a week; as soon as they are out of cold storage they begin to go back. Generally flowers would bring more if sent in fresh than they do when kept for holidays to the very last minute and arriving when not expected. It may be remembered how scarce double violets were preceding last Christmas. The report was they were not blooming. Hardly a flower could be obtained during the two weeks preceding Christmas, yet when the Saturday before Christmas came you could almost swim in double violets. The high price that was expected was not realized, and in fact they sold for almost anything offered, while they would have brought good money if sent in before. The growers sometimes think they know better than the dealer when to send in. It does not pay to hold flowers for several days for the sake of a few pennies saved on expressage, as the loss on wilted and stale flowers more than makes up the difference. Flowers should always be put in water at least two or three hours, if possible over night, before shipping, thus being stiffer, harder and more presentable.

Some growers do not approve of having their flowers sold on commission, say that it is the poorest way, possibly when they may be judging only from having left a lot of flowers they were unable to sell themselves, but expected the commission man to sell and make good returns. Growers that do something of a retail business sometimes send the surplus, which is generally the poorest, to a wholesale house, expecting good returns. As a rule when that grower's retail trade is dull the wholesale is likewise dull, also the commission man will get far more flowers and of a better quality from that grower too than when trade is brisk. To do a grower's stuff justice the commission man should get his whole crop the season through, so he will have a regular supply that he can depend on, and take orders with a certainty of being able to fill them. As a rule the first ones to cut prices are the growers or their salesmen. They seem to get frightened when things begin to glut up a little, and think the only thing to do is to sell cheaper, whereby if they held on to former prices and threw some stuff away, trade in a few days would again brisk up and the demand be equal to the supply. Prices once dropped are hard to get up again.

It is to be hoped that the contemplated organization of the wholesale dealers of this country at Atlantic City during the coming convention will be of mutual benefit, both to the growers and dealers as well as the wholesale trade.

Another strong point for the commission man is every sale is guaranteed by a responsible party. If he is not responsible no one should patronize him; if it is shown that he has kept back one penny wrongfully from a single consignor no one should patronize him. He should believe what is true, that honesty is his best financial policy, that it is to his moral and intellectual interest to be just, that socially he must always endeavor to follow the golden rule.

Plunging Azaleas.

In speaking of plunging azaleas over summer in hops a Philadelphia grower said: "I have tried it and find while spent hops are good enough for some plants they will not do for azaleas. I remember once I had prepared two long beds parallel to each other, one of old manure and the other of hops. In the latter had been plunged small bedding plants which at this time had all been sold. Having occasion to go away one day, I told a man to place the azaleas in the hops. When I returned the next day, to my surprise they were all very nicely arranged in the old manure. I was annoyed but as they looked so nice I thought I would leave them there and see how they would do for a while. As the hops got dry they blew over the manure and it had the appearance of a bed of hops. But how those azaleas did grow! I never saw anything grow so luxuriantly. This settled the hop question with me, as although I have used them myself and seen others do the same have never seen them grown successfully in this way. They seem to like manure however and make a most wonderful growth when plunged in it." K.

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A Very Pleasant Day.

On the fifth of June in response to an invitation very generously tendered to the New York Florists' Club by Mr. W. Bayard Cutting to visit his beautiful place, Westbrook Farm, at Oakdale, Long Island, thirty-nine members of the Club availed themselves of the same. This, considering the very threatening looking morning was more than the most sanguine among us expected. But a large proportion of the members knew there must be something worth going to see, so the weather could not prevent their taking it in.

During the journey there considerable rain fell, but fortunately it held up just before our arrival at Oakdale where three very large hotel wagons with the able and genial superintendent, Mr. Alex S. McLennon met us and took the entire party to Mr. Cutting's house, driving past the entrance of Mr. W. K. Vanderbilt's place, past the South Side Club House and entering the grounds by the main entrance where is situated a most unique lodge recently built and thatched with heather from the Highlands of Scotland. This called forth many complimentary remarks and undoubtedly brought many pleasant recollections to the sons of Bonnie Scotland, of which there were a goodly number in the party.

Immediately after passing through the gates the gorgeous beauty of the place begins to open to us. The rhododendrons are here seen in all their glory, grouped as they are at different bends of the carriage road, each color predominating in groups by itself or blending so that perfect harmony prevails everywhere. Here stands a very large group of nearly white with a few deep purple in the background, the whole having a back of natural woods, which with the bright green foliage lends enchantment to the whole. Nearly all the planting done here is simply clearing away the original undergrowth in suitable places, replacing it with the desired class of plants. Another clump, sinking down into a beautiful dell are all the fine deep rose purple "John Waterer"; this clump must cover considerably more than half an acre of ground. Then we come upon a large mass of white and scarlet, but unfortunately the latter were past their best. Another mass is nearly all that beautiful blush pink shade so much admired in Daybreak carnations. Further on we come upon a fine open lawn gradually rising to where the house stands, and what a house it is. To the ordinary observer one would think there were room enough and to spare for a hundred people, and certainly we found an abundance of room to thoroughly enjoy the sumptuous lunch provided for us, after being most cordially and pleasantly received by Mrs. Cutting and her sister Miss Yulee, who expressed much regret at the forced absence of our host Mr. Cutting, who had been very unexpectedly called away on important business and our only regret was that we could not have the great pleasure of meeting him personally to express our full appreciation of the pleasure of visiting his beautiful place.

After doing full justice to all the good things for the inner man we all registered and commenced a tour of the ground. Only a small portion of the 1600 acres of course could be travelled over in the limited time at our disposal, but at every turn some new and interesting feature presented itself, rambling away through the woods which are tastefully arranged with flowering shrubs of many varieties in groups, rhododendrons predominating but kalmias, syringa and many other families are represented in groups wherever a suitable place presents itself.

The fish ponds are a great feature here, fed as they are by pure spring water the fish are in their glory and the water is as clear as crystal. On the banks of these are some noble clumps of the great favorite of the place, and choosing a position where they fully reflected their glowing colors in the water we could not help thinking it was indeed a fairy scene. But time is pressing and compels us to move on. Suddenly we come upon a large mass of Iris aurea and looking across the lake another is reflected in the water, and so we go on from one pleasant scene to another until we come back to where art is doing nearly all the beautifying, as nature here has not lent the helping hand as in that part already gone over. The arboretum is already furnished with some very beautiful and choice things, and additions are being made steadily. The old-fashioned flowers, aquilegias among them, were in perfection and are largely represented in a garden devoted to such things. Next comes a large flower garden laid out in graceful and easy design. All these had to be made at great expense, as the natural soil is nothing but sand and gravel, which had to be removed and replaced with good soil. Behind this again are situated the greenhouses, in which were growing among other things a fine collection of chrysanthemums. The premier prize for the best arranged group was won by Mr. Cutting at the New York show last year, and, judging from the condition of these plants, he would have very little trouble in carrying off another this year should opportunity offer. Mr. Cutting has always been a most liberal exhibitor at and patron of horticultural shows.

Near the greenhouse is situated a trial ground where many of the new and choice kinds of rhododendrons are being tried before introducing them into permanent plantations; among them are some exceedingly beautiful things, notably one called "F. B. Hayes," but space forbids us from enumerating these and many other fine things.

From here the entire party were escorted to the farm proper, where can be seen probably the best model cow stable and dairy to be found in America. These and all other appointments of the farm are on a very fine scale.

After viewing all that time would permit we were introduced into Mr. McLennon's office, where large cans of new milk fresh from the fine Jersey herd were placed before us with crackers and cheese, and, notwithstanding the ample justice done at the lunch table, equal justice and punishment awaited the rich bovine produce, after which we were invited to ride to Islip and Bay Shore over a beautiful road, which all very much enjoyed. Here we took the train for our return journey after having spent one of the most enjoyable and instructive days we ever had, every one feeling deeply grateful to our host and his able superintendent, Mr. McLennon, who is so ably carrying out the desires of his employer, and it is the earnest wish of everyone that they may all be blessed with a long life and be enabled to carry on the great work they have only started in, then in a few years Westbrook Farm will indeed be an ideal place.

Nearly all that has been done here to beautify and improve it has only about six years to its credit, which has been the term of Mr. McLennon's incumbency, and every part of this fine place shows distinctly the mark of a master hand. Its perfect keeping in even the smallest detail, and the whole place is really a model. Long may be it remain so and it owner live to enjoy it. JOHN N. MAY.

Hardy Plants for Cutting.

This is a good time to make notes of some of the best hardy plants for cutting, and the selection should be carefully chosen of such varieties that follow one another, so that anything like a continuous supply may be insured. Where there is a good collection of flowering shrubs, beds of roses, and a mixed herbaceous border, there is always something to cut, but in addition to this it is always an advantage to have a few good sized beds of plants for this purpose, and still find plenty of successional bloom without disfiguring the beds too much. To obtain this the plants must be well established, the soil well enriched, and a good mulching of manure applied in winter. For the convenience of gathering the flowers, beds about 4 feet wide with alleys between are the best, as if they are put out in large breadths more shoots will get broken down in the constant visiting these beds get during the flowering season than would be got from the alleys if they were all planted. The list of good plants is very large but the following will be found suitable.

Achillea Ptarmica, with its innumerable heads or bunches of pretty little double white flowers, keeps on flowering nearly the whole summer, and the more freely it is cut the more does it produce flowering shoots. All the attention it needs is a good mulching of manure in winter and keeping free from weeds in summer. It is well adapted for wreaths. Achillea serrata plena (the Pearl) is one of the very best white flowered plants for the border or cut flowers. It lasts longer in bloom than the other varieties, and is somewhat later; it much resembles a pompon chrysanthemum.

Campanula persicifolia alba plena is a real gem; it spreads freely, and may be increased by division. This will also force well, especially late.

Delphiniums are splendid flowers for cutting, and give a great variety of color. If the central spikes are cut as soon as the flowers expand, the side shoots spring up and continue a long time, and are really more serviceable than the first bloom. If left to seed the flowering is soon over. D. formosum is easily raised from seed, and makes a fine show with its rich blue spikes of bloom.

Helianthus multiflorus or perennial sunflower, is one of the best for supplying cut flowers. Once planted a good top-dressing will keep it right until it requires taking up and dividing, replanting, if possible, on fresh soil.

Lathyrus grandiflorus is the everlasting pea; both red and white flowered varieties are invaluable for cutting, and if planted near a fence or something they can climb over, they will yield an unfailing supply of bloom, and make objects as well. They do not like being disturbed, and if left for years the better result will follow. Top dressing well over the crown in winter is all they require.

Pyrethrums single and double, are very beautiful and they are now of so many varied colors that they are well suited for cutting from, and can be used for any decorations.

P. uliginosum is a tall handsome species, and one of the best of the family, as it comes in late, when flowers begin to get scarce in the fall. For florists' and



THE AMATEUR ORCHID GROWER'S DREAM.
[*Reproduced from the Journal of Horticulture.*]

cut flower purposes it is very valuable. The flowers resemble a marguerite.

A. J. E.

The American Association of Nurserymen.

The 19th annual convention of the American Association of Nurserymen opened its session at the Cataract House, Niagara Falls, June 6. There were about 70 members present when the meeting was called to order, but by the following morning there were about 230 recorded on the secretary's books, and they represented almost every state and territory in the Union. The convention expected to be addressed by Gov. Flower, but he was unable to be present, and President U. P. Pearsall of Fort Scott, Kan., delivered the opening address. The president referred to the very trying time during the past year to the nurserymen, but said he believed they had on the whole fared better than men in other lines of business, as their stock had not suffered any more damage, nor had any more been wasted than in former years. The nursery business was, he said, a tax on the nervous system, and attendance at these meetings was a benefit to all delegates, while the surroundings of Niagara afforded a grand opportunity to study nature closely. The horticultural press and the medical fraternity had helped the nurserymen by urging the consumption of more fruit, calling attention to its wholesomeness as a diet. Another improvement for the trade was better railway facilities all over the country for shipping fruit to the markets of the world. The speaker thought nurserymen should hold up the apple and peach crop for fear of overproduction. In reference to insects and disease he considered that a more liberal application of wood ashes and other forms of potash would be most beneficial. Regarding legislation the president referred to the unfair action of some of the western states, notably California, in practically placing an embargo on fruit and nursery stock, requiring all fruit to be inspected for insects and infectious diseases before it was allowed to pass. "Better laws should be made in reference to this, and we should at least have free trade between states."

Papers were read on the first day as follows: "The most profitable method of introducing new fruits," by Mr. J. H. Hale of So. Glastonbury, Ct.; this paper was of unusual interest. In this connection he suggested that a collection be taken up for E. W. Bull, the originator of the Concord grape, who is now 80 years of age, and dependent on charity. There was a very liberal response among the members. The next essays were on the nursery industry by gentlemen representing a wide separation of territory, the east by W. C. Barry of Rochester, N. Y.; the south by P. J. Berckmans, Augusta, Ga.; the north by J. Cole Doughty, Lake City, Minn., and the west by H. Augustine of Normal, Ill. A paper on the "Natural value of synonyms," by Prof. L. H. Bailey of Cornell University closed the essays for the day; Prof. Bailey was as interesting as he always is and "profound in his learning."

The first day's session closed with the election of officers for the coming year, with the following result: President, J. H. Hale, So. Glastonbury Ct.; Vice President, Hon. N. H. Albaugh, Tadmor, O.; Treasurer, N. A. Whitney, Franklin Grove, Ill.; Secretary, George C. Seager, Rochester, N. Y. Executive committee, Irving Rouse, Rochester, N. Y.; W. J. Peters, Troy, N. Y., and D. S. Lake, Shenandoah, O. The convention of 1895 will be held in Indianapolis, Ind.

On Thursday there was but one session instead of two as intended, a prolonged session concluding the convention. The meeting adjourned about 2 p. m. The papers which were scheduled to be read, but which were omitted, and will be published in full in the proceedings were: "Why are foreign grown shade and evergreen trees so largely sold by American nurserymen," Irving Rouse, Rochester; "Cause of low prices in nursery stock," Chas. A. Green, Rochester.

An interesting paper on Forestry was read by Robert Douglass, Waukegan, Ill. Mr. Douglass is said to be the oldest nurseryman in the United States. Mr. C. Worden of Niagara Falls, Ont., read a paper on "Nurserymen's novelties." "The Rocky Mountains: will they be fruitful" was read by S. M. Emery, Bozeman, Mont., and "Culture of standard pears" by Wing R. Smith of Syracuse. The convention finished its deliberations with a lively discussion on the tariff question, which was precipitated by the paper read by Mr. Geo. A. Sweet of Dansville, entitled "Our foreign relations." Before the discussion subsided everybody had expressed his political affiliations, and it ended in the same old story. Those who wanted imported stuff didn't want any tariff for protection, while those who grew everything they offered for sale were stiff protectionists, and patriotic at that. There were a few exhibitors among them. Very pretty little conifers (called evergreens in this country) by D. Hill of Dundee, Ill.; the same class of exhibits by the Elgin Nursery Co., Kane Co., Ill., and the Niagara River Nurseries, Youngstown, N. Y. The Rochester Lithographing Co., had marvelous specimens of their art (on paper) portraying plums, apricots, flowering shrubs, etc., which we have longed for, but they never came.

The nurserymen were photographed in a group on the banks of the Niagara, with the rapids for a background, and what more beautiful place could be selected for a convention? Everything was beautiful except the weather, and that was chilly, windy and cloudy. Altogether President Hale told the writer that the convention was in all respects a success. My own impression of it was that the association is composed of a solid, substantial and business-like lot of men and a credit to any profession. It would stagger the man who owns only a city lot or two, or an acre in town to hear these men talk about seven hundred acres here and a thousand there. Here is the record of one whom I had the pleasure of meeting: Mr. Frederich G. Withoft of Dayton, Ohio. He is one of the proprietors of the Dayton *Daily Press*, vice-president of the Albaugh Nursery & Orchard Co., Tadmor, O., with 500 acres: president of the Ohio Land Fruit Co., Fort Valley, Ga., 1820 acres; treasurer of the Albaugh-Georgia Fruit Co., Fort Valley, Ga. 1172 acres; treasurer of the Kentucky River Fruit Co., Gratz, Ky., 250 acres; director of Woodstock Fruit Co., Gratz, Ky., 300 acres; director of Oakridge Fruit Co., Kathleen, Ga., 600 acres; director of Tivola Fruit Co., Tivola, Ga., 1536 acres; director of Moss Lake Fruit Co., Fort Valley, Ga., 600 acres. This is only a sample copy picked out at random. He is not only the possessor of much of this world's surface, but also the happy owner of a kodak of the most improved variety. While riding on the substantial trolley railway on the brink of the gorge for 12 miles and back, some of it so close to the bank that it makes nervous men wish Niagara had never been discovered, this lively gentleman from Ohio operated on everything that was in his opinion worth taking a shot at. The patience of the trolley men passed all understanding. A score of times we stopped our twenty-five mile an hour gait to allow Mr. W. to get a shot. And he shot everything, from the oldest printing house in Ontario up to Brock's monument, and finished off by taking a shot at the last drop of water that ever shot over Niagara Falls when he pushed the button.

W. S.

The Asparagus Beetle.

The twelve spotted asparagus beetle is reported to have done serious damage to the crop in Monroe county, New York. This beetle was first observed in this country at Baltimore in 1882. Since then it has worked its destructive way slowly along the coast. Prof. Lintner, the New York State Entomologist, recommends sprinkling the plants with powdered lime and turning the chickens loose.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Boston.

The annual rhododendron show of the Massachusetts Horticultural Society was held in their lower hall Wednesday and Thursday, June 6 and 7, and as this was the first large show of the year to which no admission is charged, the beautiful display was very much admired by a large number of people. The committee of arrangements must be given a great deal of credit for the arrangement of the exhibits, which was very much appreciated by the many visitors.

Upon entering, the long wide table, which extended the entire length of the middle of the hall, was filled with the display of James Comley, gardener to Francis Brown Hayes. Large vases filled with branches of the vari-colored oaks, maples and beeches, interspersed with viburnums and syringas, were placed the whole length of the middle of this table and were flanked on either side with beautiful large trusses of rhododendrons and hardy azaleas. At the head of the hall a series of tables, each rising above the other, were filled with the exhibit of H. H. Hunnewell. The display consisted of magnificent trusses of rhododendrons, backed by hardy azaleas and colored foliage. This exhibit contained seventy named varieties of rhododendrons, but was not entered for competition. The table on the left was occupied by J. L. Gardner, Jos. S. Fay and the Shady Hill Nursery Co. The first named showed immense trusses of rhododendrons; Mr. Fay a large display of hardy flowering trees and shrubs, and the last a beautiful display of herbaceous plants. S. J. Trepass showed a few handsome trusses of rhododendrons and captured the first prizes for twelve and six hardy varieties.

On the right centre table, T. C. Thurlow exhibited forty-five varieties of hardy azaleas, and branches of colored foliage, among which was noticed five varieties of the English oak. This table also contained exhibits of pelargoniums from E. Sheppard & Son of Lowell and W. E. Coburn, the former showing all named varieties, and a beautiful strain of pansies from I. E. Coburn. On the table at the right side of the hall the German irises were shown, and this class brought out an unusually large number of exhibitors and close competition. J. L. Gardner, W. H. Cowing, Mrs. E. M. Gill, Jackson Dawson, M. F. Stevens, Mrs. E. H. Wood, F. S. Davis and Francis Brown Hayes competed, the prizes being taken by the first named.

The many lovers of native flowers fully enjoyed the displays made by Misses C. M. Endicott and M. C. Hewitt, Mrs. P. D. Richards, Geo. H. Grinnell and the Misses Doran, all of which contained many rare specimens.

Mr. Lawrence Cotter showed some beautiful hardy pyrethrums, filling seven large vases with as many named varieties, easily capturing first prize.

The first prize for herbaceous plants was taken by J. W. Manning, second going to the Shady Hill Nursery Co. Baskets of flowers were shown by Mrs. E. M. Gill and Mrs. A. D. Wood, and Jackson Dawson made an exhibit of forty varieties and species of roses. Seedling clematis were shown by Robert Manning and Mrs. M. T. Goddard, and in the latter exhibit there was one variety which was very beautiful and was awarded a complimentary notice. A large branch of Viburnum tomentosum shown by George Chase of Salem attracted a great deal of attention. William Nicholson exhibited vases of Nicholson and Ada Byron carnations, and H. K. Southworth a large vase of Buttercup.

The month of weddings has arrived, and all the florists are wide awake, each one looking for his share in this line of work. The event of the week was the Ratschesky-Shuman wedding, the local papers filling columns of space with accounts of the event and illustrations of the floral decorations. Galvin Bros. were the lucky ones on this occasion.

The Saturday exhibition at Horticultural Hall was very small, owing to the rhododendron show having occurred during the week. Jos. Tailby & Son showed a plant of Richardia africana Elliottiana in flower. This is the yellow calla which was placed upon the market in October, 1892, by Hugh Low and Son, and as far as known is the first exhibit of it in this country. It is a beautiful yellow in color and a valuable acquisition. The Society awarded them a silver medal.

New York.

On the 5th of June on the invitation of Mr. W. Bayard Cutting, the New York Florists' Club visited his country seat at Oakdale, L. I., some 40 miles from New York City. Although the morning was rainy no less than 38 members of the Club availed themselves of the opportunity. On the arrival of the train at 12:45, the party was met by Mr. Alex. McLennon, the able superintendent of the estate. After a pleasant drive of about two miles the mansion was reached, where the party was received by Mrs. Cutting, who regretted the unavoidable absence of Mr. Cutting and who gave a cordial welcome to the guests. After the reception the party proceeded to the spacious dining room, where a delicious lunch awaited and was relished by the visitors. After the lunch Pres. P. O'Mara, on behalf of the Club, thanked Mrs. Cutting for the privilege of visiting the estate and the kind hospitality extended to the Club. At the request of Mrs. Cutting every member subscribed his name in a visitors' book and then under guidance of Mr. McLennon the party proceeded to examine the many beauties of the place.

The rhododendrons presented a grand spectacle, several acres of them being in flower, arranged in informal beds and massed in solid colors. The hardy herbaceous plants, of which this estate contains a large collection, were in masses of the most popular kinds, especially irises and lilies. The unsurpassed collection of trees and shrubs was also greatly admired, while in the greenhouse some fine American Beauty roses, crotons and various foliage and flowering plants could be seen. The whole grounds were in perfect condition and reflected great credit on the superintendent.

The plan adopted here is to conserve and enhance the natural beauties of the place rather than to attempt any artificial gardening.

From the garden a tour was made through the stables, dairies, dog and chicken houses, etc., with which this estate is fully equipped. Then a short rest at Mr. McLennon's office, where again refreshments were served, the milk especially was highly commended and numerous inquiries made as to the cow that gives such fine liquid. Here the party divided, those having appointments for the evening were driven to the Oakdale depot, while about half the party enjoyed a long drive to Bay Shore depot, where after giving three cheers for Mr. McLennon the party took the 6:50 train for New York, greatly delighted with the day's outing.

An excursion of this sort should be taken at least once a month to either private or commercial establishments when any specialty is at its best. It would be not only pleasant recreation but also highly instructive and profitable to everyone.

Among those present on this occasion were: Pres. P. O'Mara, Treas. Chas. B. Weathered, John N. May, Alex. Burns, Rudolph Asmus, Julius Roehrs, Theo. Roehrs, I. Forsterman, E. Koffman, Chas. Weeber, N. T. Cottam, C. H. Allen, F. Storm, P. Dailledouze, H. Dailledouze, Chas. Zeller, W. A. Manda.

Philadelphia.

The June meeting of the club was quite well attended. There were several out of town members and visitors, including Mr. Abraham Bitner of Lancaster, Mr. Herr of same place, and Mr. J. L. Dillon of Bloomsburg. Details of entertainment of visitors were discussed and the reports showed all the committees up and doing.

Mr. S. S. Pennock read a very interesting paper on "The needs of the commission business," which was well received and for which Mr. Pennock was given a vote of thanks. [The paper appears elsewhere in this issue.—ED.] In the discussion which followed George Anderson said the commission men could soon get all the Philadelphia product to handle if they would guarantee growers the same as they received by present methods. Mr. Heacock was not sure that the present plan of growers peddling their own flowers was the best and favored the market plan rather than the commission men. A number of growers were present who no doubt did a lot of thinking, but had not much to say.

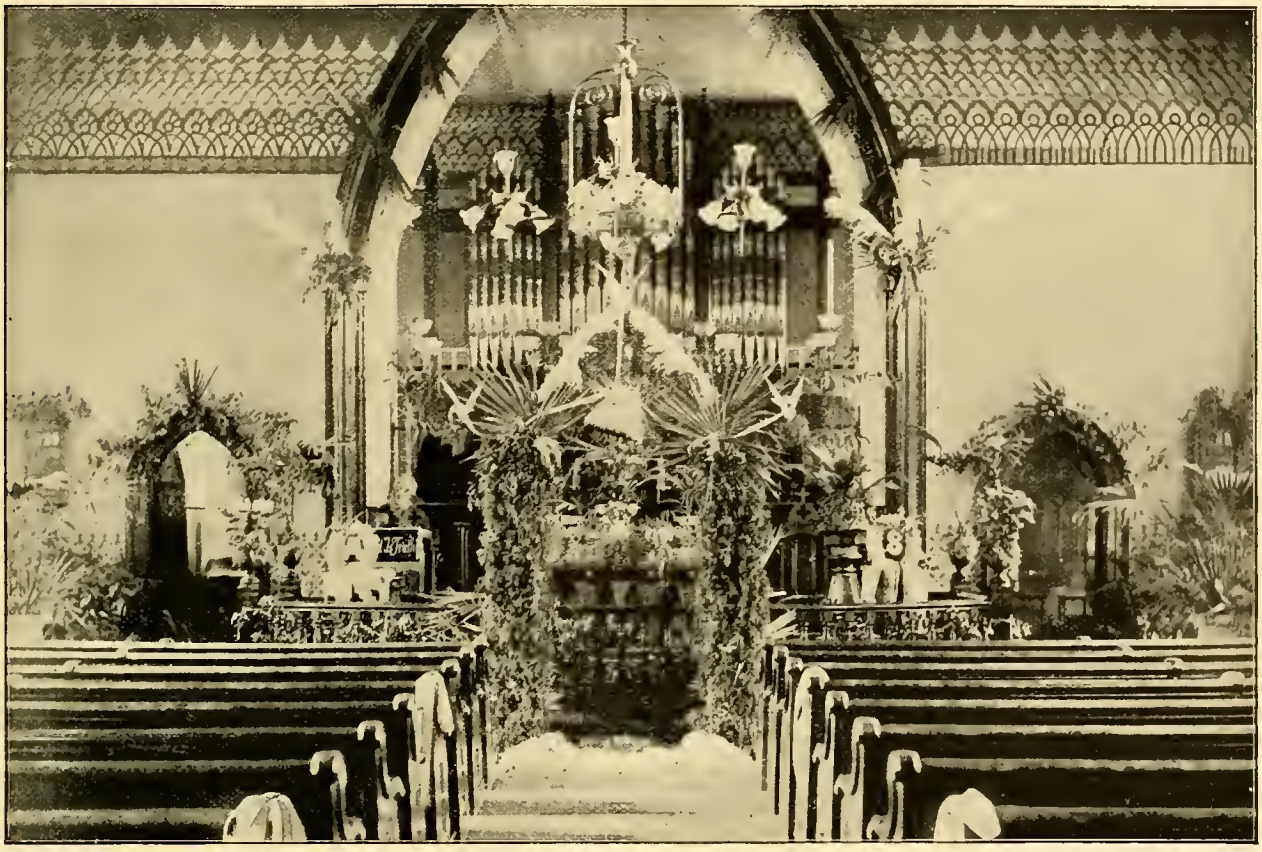
Otto Horn of Frankford died last week after an illness of a few days. Mr. Horn was 36 years old. He leaves a wife and several small children. Mrs. Horn will continue the business.

There have been at last two whole days without rain and it would really seem as if we were to be favored with a fine day now and again. The continuous wet weather interfered to a considerable extent with planting, both inside and out, as the soil could not be handled. It will not take long, however, to catch up with the work should the present sunshiny days continue.

There is little to be said of the business of the past week. There has been some work for weddings and school commencements, but the general trade has dropped down almost to a summer basis. With the exception of the mildew on the foliage the roses have been fairly presentable and not over plentiful. Prices remain about the same as last week. Mermets, Brides, La France, $4; Kaiserins, Testouts, $5 to $6; good outside Jacqs, $4; Beauties, $1 to $3 per dozen; carnations of fair quality, 75 cents to $2. Wilder and Daybreak show up very well among the pinks, and McGowan is still a leader among the whites.

Paeonies sold very well this season and are now about over. They brought from $4 to $10 per hundred. About all the valley now in the market comes from Newport and sells for $4. There is quite a demand for sweet peas, white being particularly scarce the past week. We think the growers would do well to bleach a little more of the seed before planting, as the white is a good seller. Swainsona was used as a substitute for white peas and made a very good counterfeit.

Sunday, the 9th inst., was Children's



CHURCH DECORATION.

Day in the Methodist churches and nearly all were decorated. In one church laurel branches in flower placed in buckets of water among the foliage plants were used with good effect.

There is very little in flower now in potted plants. August Lutz has some nice hydrangeas very well flowered for this season. How did you do it, August? These with a few very pretty Canterbury bells from Miller are about the only blooming plants now to be seen.

H. Rainey's interest in the firm of Ehret & Rainey was sold out a week ago on a judgment of $200, entered up by Julius Wolf, Jr., and bought in by him for $25. This closes out Mr. Rainey's interest in a good business established about 20 years ago. Some five years back Mr. Rainey was doing a fine business. About that time he took in a special partner, giving him a very small interest at first, but this fellow, who has had a very large experience, finally got the upper hand and crowded Harry out. His name is John Barleycorn. Mr. Rainey was a very hard worker and was scarcely ever seen outside of his store. We feel very sorry for him and hope now that his partner has been shown up in his true light that he will drop him forever and begin over again on his own responsibility. He is still young and will find plenty to help him if he shows himself worthy of their assistance.

A little more hail. F. Hahman, near Frankford, suffered a loss of 8 to 10 boxes, and it seems singular although the storm covered considerable ground the hail was not heavy enough to do damage to establishments, even in the immediate vicinity of Mr. Hahman. K.

Church Decoration.

The accompanying engraving is from a photograph of a church decoration arranged for a wedding by Mrs. Henry Rehder, Wilmington, N. C. The plants used were mainly palms, hydrangeas, rubbers and ferns. Wild smilax was also freely used. The picture is suggestive as showing what may be done with rather ordinary material and for a comparatively moderate price.

St. Paul, Minn.

The cut flower trade has been lively and June may yet be the banner month of the year for the retailer. Roses and carnations are especially called for, and while the cut has been large and the quality good still the demand has been ahead of the supply. Retail prices have not materially advanced, though the best roses are bringing $1.50 per dozen. Growers hold prices firm at $4 to $6 per hundred.

In the plant line trade has been a little dull, but stocks are now low, the best having been sold. Some beds and vases are still being planted, but that class of work is practically ended, and florists are busy planting out their carnations, violets, etc., and getting their rose houses in shape for another season's business.

At Como Park, bedding out is nearly completed and the warm weather of the past week has brought every thing forward in fine shape. Geraniums are looking exceptionally fine for this season of the year. Pæonias massed and grouped on the side hill are now in full bloom and are very effective. Hybrid Perpetual and yellow summer roses are just coming into bloom and suggest the beauty that might be added to the park by planting more of them. We presume, however, that they will be planted in due time, as Supt. Nussbaumer is fully alive to the requirements of the park and has produced marvelous changes in the past two years.

L. L. May & Co., have a house of Kaiserin just coming into bloom. The flowers are large, of fine form and very free bloomer we should judge. As a summer rose they seem to fill a long felt want, and will undoubtedly soon be planted extensively by our florists. For winter blooming they have never been thoroughly tested here, but will be given a trial the coming season. This firm has just completed planting out carnations and violets for another season's forcing. Daybreak, Silver Spray and Portia are the standards in their respective colors, while Helen Keller, Jacqueminot, Uncle John, Stuart, E. A. Wood and other new varieties will be planted quite extensively another year.

Chris Hansen is cutting some very fine Testout, the finest that has yet been shown in this market. While not as free a bloomer as the La France it seems to hold its form and color better in warm weather, and will become a general favorite.

All of our rose growers have been cutting some nice roses this spring. While credit for this of late belongs to the favorable weather the general average has been maintained by careful watching and firing nights whenever there was a sudden drop in temperature. Very few mil-

dewed roses have been seen, and the growers have been well repaid for the slight additional expense of night firing in warm weather. Trade promises good for two weeks to come, as there is a large country demand for flowers for "commencements."

F. G. Gould of Excelsior, on the shores of the beautiful Lake Minnetonka is just now sending in some fine carnations. Hinze's White is grown to perfection, while Portia, Daybreak and Garfield are all fine. Brother Gould seems to have learned the art of producing fine carnations in summer and many of the boys would like to learn his secret.

By the way, have any of our friends noticed the tendency of the Daybreak to fade in hot weather? If cut and placed in water it holds its color, but when fully expanded in the bright sunshine it fades. This only shows that no flower is perfect at all times.

Mr. J. S. Taplin of New York was a visitor during the week. His first impression of the great Northwest is a favorable one. FELIX.

Chicago.

The market is very quiet, with supply slightly exceeding demand. Roses are in fair demand, but their quality is getting poorer every day. Mildew appears to be the rule, though occasionally a lot of well grown flowers may be noted. Reinberg Bros. are cutting some very fine Kaiserins. The wood appears strong and vigorous, foliage perfectly clean. Kennedy of Lake Forest ships in some good Bridesmaids cut from young stock planted the middle of February.

Prices have remained nearly stationary. Beauties still lead in demand. The average stock received is getting small and rather poor, though O. P. Bassett and Reinberg Bros. are still handling good blooms. A wide range of price, from $5 to $20. Meteor and Bridesmaid meet with good demand at 4 to 5. La France is selling fairly at 3 to 5. Mermets are slow at 3. Brides and Woottons go at 3 to 4. Perles are slow at 3, and Gontiers at 2. Carnations, which have kept up wonderfully well all the season, are now getting very small. Corbrey & McKellar are still receiving extra fine blooms of Daybreak and Tidal Wave, grown by Henry Munôt. These flowers are disbudded, and, considering the season, are really fine. Of these Daybreak brings $2.50 to $3 and Tidal Wave $2. Common stock is down to 75 cents.

Pæonies, though very plenty, have not been as badly overstocked as was feared. This is largely owing to the fact that some of our largest growers are holding back the bulk of their cut in cold storage until the general market is cleared up. Good stock sells for 35 cents per dozen, Drop white 50 cents, but a good many of the poorer grades go for less. Sweet peas are plenty and of good average quality. Supply some days is in excess of demand. Good stock is selling at 35 cents to 40 cents.

Geo. Klehm is marketing a heavy crop of longiflorums. As Harrisii is nearly cut out these meet with good demand at $1 a dozen.

Retail trade is rather spasmodic. Some are as busy as bees some days, there being quite a crop of June weddings, and at other times business is of midsummer dullness.

Mr. A. Wiegand of Indianapolis recently passed through the city on his way to California, where he will spend several weeks.

Z. K. Jewett of Sparta, Wis., stopped off to visit friends on his way home from the Nurserymen's convention at Niagara Falls. He reports a very successful and profitable meeting.

Buffalo.

Adams & Nolan made an assignment last Tuesday; cause unknown. It is believed that one or both of the firm will very soon resume, as affairs are much brighter than is usually the case in matters of this kind. W. S.

Under the Rose.

Some years ago Mr. C. B. Whitnall, the florist of Milwaukee, Wis., had a friend who was a student of Oriental religions and who had a leaning toward belief in the Buddhist theory of transmigration of souls. They had many discussions over this and similar subjects and as a result "the dreamer" asked that Mr. Whitnall plant on his grave a rose bush of his favorite variety (should Mr. W. survive him) and see that the same was carefully tended until it had taken permanent hold of the soil, so that his ashes might be by the usual course of nature transformed into the flower he loved in life. The incident coming to the attention of Mr. Eben E. Rexford he made it the subject of the following poem:

Often and often they talked together,
In the sweet Spring days or the sad Fall weather,
Of the life that is and the life to be,
Awed and perplexed by its mystery.

Here for a day, and to-morrow, where?
When the grass grows over us, lying there
In the still white city where dead men dwell,
What shall we dream of? Who can tell?

Can the dead come back? Do the living feel
Through the dear old places softly steal
The presence of those who have gone away
From the World we live in? Who shall say?

"I believe," one day the dreamer said,
"That in time to come, when men call me dead,
I shall live again in the flower that grows
Over my grave, My friend, who knows?"

"When I am dead I would have you make
My grave near by for old friendship's sake,
It would seem less lonely if you were near,
Though dead, I would feel you, would know and hear!

"Plant in the mould that is heaped above,
He who forgets not, the rose I love,
And into my heart its roots will grow,
And feed on the dust of the dead below.

"So I shall become a part of the rose
Growing out of my grave, and each flower that blows,
Shall be a message of love I send,
From that grave to each old and steadfast friend."

* * * *

He died, and his ashes are hidden away
Under the roots of a rose to-day,
And into those ashes the rose will grow
And feed on such food as few roses know.

The heart of the dead to the flower will give
Its sweetness and beauty, and those who live
And are true to the friendship of old will know,
That the dead remembers!—And love will stir
Their loyal hearts for the friend below,
Who makes the rose his interpreter.

Park Superintendents will Organize.

An Association of Superintendents of Parks and other Public Grounds will undoubtedly be organized in the near future. A number of leading superintendents have already expressed themselves as heartily in favor of such an association and the organization promises to be a strong one.

Certainly much good could be accomplished through such a society and we congratulate the superintendents upon their decision to organize.

We hope to be able to give full details at an early date.

News Notes.

TOPEKA, KANS.—R. J. Groves, Jr., is building a new house 16x100.

NORWALK, O.—Mrs. C. W. Boalt has entered the florist business at 114 W. Main St.

PLYMOUTH, IND.—Mr. William Holland, the nurseryman, is a candidate for county treasurer.

APPLETON, WIS.—W. H. Rogers is preparing to add several new houses to his establishment.

SARATOGA SPRINGS, N. Y.—John Ralph has purchased 50 feet of additional frontage adjoining his premises.

GREENSBURGH, PA.—D. M. Shearer & Co. have removed from North Main St. to the Press Building, West Otterman St.

BARABOO, WIS.—Mr. Beebe Strong is contemplating the erection of greenhouses here with the idea of starting into the florist business.

WOBURN, MASS.—E. G. Bridge is erecting a three-quarter span violet house 16x80 glazed with 16x24 glass, to be heated by hot water.

INDIANAPOLIS, IND.—Mr. A. Wiegand is on his way to California. He will view the mid-winter exposition and visit various points of trade interest.

HAMILTON, N. Y.—Mrs. D. M. Fairchild is starting in the florist business here and is building two houses, one 18x70 and one 18x90, also a palm house. It will be conducted by "Bert" Starr.

PHŒNIX, ARIZONA.—Adams & Armstrong, nurserymen, have dissolved partnership. Their entire stock has been purchased by the Armstrong-Kendall Fruit & Nursery Co., who will continue the business.

CHARLESTON, S. C.—Mr. J. M. Connelley has moved into his handsome new building on Meeting St. A local daily describes it as "A substantial improvement that Charleston may look upon with pardonable pride."

HOUSTON, TEXAS.—While final arrangements have not yet been completed it is certain that we shall have a chrysanthemum show here again this year and that it will be much larger and more attractive than that of last year.

CHATTANOOGA, TENN.—The Chattanooga Floral Society will give an exhibition June 14. Reduced rates have been obtained from the railroads and it is expected there will be a large number of visitors from surrounding towns.

SAN FRANCISCO.—The executive committee of the Mid-winter Fair has offered to present to the commissioners of Golden Gate Park many of the Exposition buildings to be used for park purposes. It is probable that a number of the buildings will be accepted by the commissioners and that they will remain as permanent ornaments of the park.

PEORIA, ILL.—A board of park commissioners for Peoria has been organized by direct vote of the people, with power to make their own levies for park purposes. The board has already been offered 200 acres of land as a gift for the nucleus of a park or park system, and the work of selecting ground and the improvement of same will soon be taken up.

Blighting of Blossoms.

It is understood that flowers are organs for a special purpose, namely the production of seed, and many of the parts serve only in the important work of fertilization and then fade and fall away. In short the showy portions of flowers are transitory organs, and are not expected to endure for long. Because delicate in structure and not provided with the thick epidermis characteristic of more permanent parts they are subject to the attack of various forms of moulds and blights.



These fungi only do damage by coming too soon and if their work was confined to petals and sepals the damage would not be so great as it is at present.

Many of our fruits suffer greatly from moulds which possibly primarily attacking the more delicate petals, spread from them to the pistil and there cause the destruction of the young fruit before it has made more than its initial growth.

One of the most serious of these blights is the gray mould (*Monilia fructigena*) which is familiar to all orchardists as the cause of the rot that destroys the cherries as they are nearly ready for picking. The plum suffers in a similar manner and from the same cause whole orchards of peaches are robbed of the fruit before it is large enough to be conspicuous. A careful study of this mould shows that, living over the winter in mummified fruit on tree or the ground the germs often first attack the tender petals of the blossom and then pass on to the young fruit.

But it is not of the blossom of the fruit orchard that attention is more particularly called at this time. A few days ago a florist asked me to give him some reason for his orchid blossoms turning spotted soon after they unfolded. This spotting of the strange and magnificent blooms of a rare orchid is a serious matter, for it makes all the difference between a flower of great beauty and long duration and an unsightly thing quickly ruined. When the sun is too strong it is possible for a bloom to be overheated and burned; but in such cases the blotch shows by its shape, etc., the cause of the difficulty. The spotting in question begins as minute specks and the dead area spreads in all directions from the initial central point. There is no filamentous fungus, as the Monilia above mentioned, to be found and the delicate tissue abounds in bacteria. The engraving shows the petals of an orchid (Cattleya) badly spotted, as frequently seen in the orchid houses. It is not to be supposed that any particular form or species of bacterium is usually associated with these spots. In fact they can be artificially produced by placing drops of a stagnant water abounding in bacteria upon the petals held in place by bits of thin glass, or without this precaution. Bacteria are in the air as also in ordinary water and the moisture remaining in drops upon the petals furnish the conditions favorable for the entrance of the germs or the destructive effect of the Ptomaine they produce.

A gray mould, usually some member of the genu Botrytis, often begins to disfigure the delicate parts of a blossom very soon after it is fully developed and fragments from such a flower when they fall upon other blossoms carry with them the quickly growing fungus. The spores of the mould may likewise be carried from one flower to another in the water used through the hose or sprinkler. But it is not of these that it is the purpose here to write.

Sometimes the same disease that affects the leaf may flourish in the blossom. There is a bacterial disease of the carnation foliage and the same germ apparently thrives in the bloom, and causes much loss to the grower. Plants that are badly diseased do not have many blossoms, but other neighboring plants loaded with flowers may have the petals badly spotted and blotched with the carnation bacterium. In this case it seems that a specific germ is at the foundation of the floral blight. The petals may be diseased before they have fairly opened out. Similar destruction is met with in roses, the petals becoming spotted while still in the half expanded bud.

BYRON D. HALSTED.

Rutgers College.

Do YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By young man accustomed to greenhouse work; references; northwest preferred. NELS PETERSON, 79 S. Jefferson St., Chicago.

SITUATION WANTED—By a thorough, first-class greenhouse assistant; age 26; 5 years' experience in commercial place; sober and reliable. Address RELIABLE, care American Florist.

SITUATION WANTED—By competent, first-class florist and gardener, single man. Full particulars in answer desirable. West preferred. Address WM B K, 920 Spring Garden St., Philadelphia, Pa.

SITUATION WANTED—By a second man, commercial or private place. Well experienced also in landscape gardening. Wages moderate. Best references. F H H, 155 Harrison Ave., Boston, Mass.

SITUATION WANTED—By experienced man as working foreman in retail commercial establishment. Well posted in roses, carnations, chrysanthemums, bulbs, palms, ferns and all the requirements for supplying a first-class store. Address, with all particulars, H. STOCKING, care Wilshire Bros., 654 Sherbrooke St., Montreal.

WANTED—Dealers' wholesale catalogues of bulbs and seeds. BYER BROS., Waynesboro, Pa.

WANTED—Established seed or florist business; Southern or Pacific States. W. care American Florist.

WANTED—Sober, reliable man, experienced in rose growing, also capable of taking charge. Address GEORGE ANDERSON, 5230 Woodland Ave., Phila.

WANTED—Greenhouse assistant; young man, some experience, good habits. State wages with board. Commercial place. Address GEO. S. BELDING, Middletown, N. Y.

WANTED TO RENT—A small florists establishment, 6,000 to 8,000 feet of glass, in good location for business. Eastern States preferred. Address FLORIST, P. O. Box 373, Portsmouth, N. H.

WANTED—A bright young man that is quick at potting, and able to work up a stock of young roses. Good references required. Wages $20.00 per month with board, to start with. W. W. COLES, Kokomo, Ind.

WANTED—Foreman to take charge of commercial place. A1 rose grower who knows roses; one experienced in carnations and bedding plants; A1, married man can secure permanent place. Address Box 61, Providence, R. I.

WANTED—A first-class working foreman to take charge of 20,000 feet of glass, and grow roses, carnations and general stock. Applicants please forward references, and state wages expected. Address M N, care American Florist, Chicago.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man. WILFRED A. BROTHERTON, Rochester, Mich.

WANTED—A foreman to take entire charge of a very large establishment in Belgium, one who thoroughly understands the best methods of forcing roses, carnations, etc., etc., as practiced in America. One having had considerable experience in the direction and management of men, and having a pleasant address preferred. To the right man a good position with liberal wages, and free passage to Belgium will be provided. Address with full particulars, copies of testimonials, etc., to JOHN N. MAY, Summit, N. J.

FOR SALE—A 10-section Carmody boiler, pattern No. 1. C. T. BRIGGS, Avoca, Iowa.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about $75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—2 large Bay Trees, round heads, 7 feet broad, 12 to 14 feet high. Shown at World's Fair. VAUGHAN'S SEED STORE, Chicago.

FOR SALE—Established seed business and dwelling house, $3,500; terms to suit. For particulars address B, care American Florist, Chicago.

FOR SALE—Hitchings patent portable return flue boiler No. 17; used two seasons; warranted perfect and all right. W. A. LEE, Burlington, Vt.

FOR SALE—Greenhouses, hotbeds and fixtures, in thriving Kansas town; good retail business. Will assist purchaser until acquainted. Address KANSAS, care American Florist.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE—$150 takes 3 year lease of three green houses, stock, fixtures, horse and wagon. Almost incenter of Chicago. Must sell; have other business. Address G H, care American Florist.

FOR SALE—Five greenhouses, stock of plants, tools and hotbed sash; good retail trade; about 20 years established. Will lease ground for term of years; good opportunity for right party. Address E. MCNALLY, Anchorage, Ky.

FOR RENT—A first-class commercial place in suburb of Chicago, containing 15,000 square feet of glass, well stocked with best varieties of forcing roses. Address RENTER, care Olsen & Hughes, 66 Wabash Ave., Chicago.

FOR SALE—The stock and good will of a paying florist business in a thriving Maryland town. Location exceptionally good. Rare chance for a good man with a small amount of capital. For particulars address HEBARD, care American Florist.

FOR SALE—Splendid business opportunity, 5 greenhouses, three 18x75, two 12x75, stocked with roses, carnations, violets, near Portland, Oregon; electric cars pass near the property every half hour to Portland. Good dwelling house two-story 18x28, good well, chicken house, barn, stable, 5¾ acres land. Price, $3,500; terms, $1,000 cash, balance $500 a year. Address D. C. LATTOURETTE, Oregon City, Oregon; or G C, care American Florist, Chicago.

FOR SALE—Two greenhouses, each 15x100 feet, well stocked, heated by hot water; built on three lots in the heart of a live city of 25,000 people. Comfortable dwelling house; three years' lease to run, rent $25 per month for house and lots. For a rose grower this is a snap. $2,000 worth of roses shipped in here last winter and spring. Will sell for $1,700. Particulars by addressing ILLINOIS, care American Florist, Chicago.

FOR SALE—At a bargain, or exchange for other property. The oldest and best known florist and truckers plant in Southern Kansas; 22 acres, early export to Colorado, Nebraska, etc. Fine cut flower and plant trade. No greenhouse near; 5000 feet glass; steam or water heat; natural gas and water works; 5 acres asparagus and pie plant; 7 room house, large barn, shop, office; live town; healthful climate. Good reasons. Address WILLIAM H. BARNES, Box 845, Independence, Kans.

GREENHOUSE PLANT FOR SALE.

On account of the death of the owner, offer for sale a complete greenhouse plant consisting of a brick dwelling house of 6 rooms, 3 greenhouses with steam heating, barn, ½ acre choice land, good well and cistern, located at Yankton, South Dakota, second largest city in the State; the only business of the kind within a radius of 60 miles. Growing towns all round this city. A splendid business opening for an industrious and competent man. Price, $1,600; one-half cash, balance on time.

AMERICAN STATE BANK, Yankton, S. Dak.

Toronto.

Amongst other orchids, Thunia (Phaius) Marshalliæ is flowering at the Central Prison greenhouses now; it is a most beautiful thing, and Mr. Houston says it is very easy to manage.

Bedding out has been a very slow process this year, on account of the weather, which still remains cold and showery. The thermometer hovers between 40° and 55° descending at night, often to the vicinity of freezing point. The total rainfall during May last at the Toronto Observatory was 9.76 inches. All dealers in plants are doing a lot of grumbling these days, and they have good cause; people are afraid to plant out much till the weather gets more seasonable, and prices are being cut to ruinously low figures. When the warm weather does come no doubt everyone will want things all at once, and there will be a great rush for a few days. "Oh! let it be soon."

We are in the throes of the quadrennial Provincial election just now, so that in spite of the bad weather and the hard times there is no lack of excitement. Although it may not be cold enough to kill coleus on the 26th of June (the fateful day) it will probably feel very frosty to some people, and there will be much snow.

The next meeting of the Gardeners' and Florists' Association will likely be devoted to "business" more than anything else. What has become of the prize list of the Electoral District Society's summer show? Only about six weeks to the usual time of holding it, and nobody appears to have received the list yet. It should be in the hands of exhibitors in March at the latest. E.

200,000 ROSES 200,000

Nice stock from 2½-inch pots.

	Per 1000	Per 100
PERLE	$25.00	$2.80
SUNSET	25.00	2.80
BRIDE	22.50	2.50
MERMET	22.50	2.50
GONTIER	22.50	2.50
MME. CUSIN	22.50	2.50
MARECHAL NIEL	25.00	2.80
LA FRANCE	24.00	2.75
WHITE LA FRANCE	24.00	2.75
ALBANY	24.00	2.75
METEOR	22.50	2.50
WATTEVILLE	22.50	2.50
SOUPERT	22.50	2.50
CLIMBING PERLE		3.50
BON SILENE		3.00
MRS. DeGRAW		3.00
SOUV. D'UN AMI	22.50	2.50

And all standard varieties in **Hybrids, Teas, Hybrid Teas, Climbers, Polyanthas,** etc, etc. Strictly our own selection, $20.00 per 1000; $2.25 per 100. Same from 4-inch pots, $6.00 per 100.

Send in your lists for prices.

TERMS CASH WITH ORDER.

CUT SMILAX, 10 cents per String.

THE NATIONAL PLANT CO.,

Dayton, Ohio.

Mention American Florist

ROSES.

Mermets, Cusins and Watteviles, $3.50 per 100. Bridesmaids, Brides, Hoste, Gontier, Meteor and La France, $4.00 per 100.

Strong American Beauties, $6.00 per 100; $50.00 per 1000. Well rooted Beauty cuttings, $3.00 per 100.

Special prices on quantity. Let me price your lists. Cash with order.

ROBERT F. TESSON,

West Forest Park, St. Louis, Mo.

Mention American Florist.

YOUNG ROSES.

Am. Beauties,	in 2 and 3-inch pots,		$5 00	and $6 00
Testout,	"	" "	5 00	and 6 00
Meteors,	"	" "	3 00	and 4 00
Brides,	"	" "	3 00	and 4 00
La France,	"	" "	3 00	and 4 00

We will quote you special price on Beauties in lots of 500 or more.

REINBERG BROS., 51 Wabash Ave., **Chicago.**

Mention American Florist.

ROSES.

Fine thrifty plants, from 2½-inch pots.

	Per 100		Per 100
SENATOR McNAUGHTON,	$10.00	LA FRANCE,	$5.00
BRIDESMAID,	7.00	ALBANY,	5.00
PERLES,	4 50	CLIMBING PERLE,	5.00
BRIDES,	4.00	TESTOUT,	8.00
MERMETS,	4.00	KAISERIN Augusta Victoria,	6.00
METEOR,	5.00	WICHURAIANA,	6.00

Also a large stock of Palms, Araucarias, Ficus, Aspidistra var.

GREENHOUSES: Western Springs, Ill. **VAUGHAN'S SEED STORE,** CHICAGO: 146-148 W. Washington St.

Mention American Florist.

Roses. Roses. Roses.

Perle, Niphetos, Mermet, Bride, Testout, Victoria, Meteor, La France, Albany, Gontier, White La France, Soupert and Bridesmaid, 2 1-2 inch pots, $5.00; 3-inch pots, $6.00 per hundred.

AMERICAN BEAUTY, 2 1-2 inch, $6.00; 3-inch, $8.00 per hundred.

THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

Brides, Bridesmaids, Perles, Meteors, Hostes, From 2, 3 and 4-in. pots. **ROSES** **Cusins, Niphetos, Testouts, La France, Mermets,**

Address for quotations T. W. STEMMLER, **VILLA LORRAINE ROSERIES, Madison, N. J.**

Sole Agents for U. S. for Chas. Macintosh & Co., England, inventors of Vulcanized India Rubber. Extra strong greenhouse hose to withstand high pressure, ¾-in., 3-ply, 15c. per foot in 50 feet lengths.

Roses. Roses.

In 2½, 3 and 4-inch pots.

ALL THE LEADING VARIETIES FOR FORCING.

Write for prices.

Flushing, N. Y. JOHN HENDERSON CO.

AMERICAN BEAUTY, TESTOUT, K. A. VICTORIA, BRIDESMAID, BRIDE, MERMET, METEOR, PERLE, SUNSET, CUSIN, LA FRANCE, 3 and 4-inch pots, prime stock, shipped at special florists' rates. Packing light.

Write for prices, including delivery to your Express office. **A. S. MacBEAN, Lakewood, N. J.**

WE HAVE a fine stock of **ROSES** prepared for winter bloom, and offer below named sorts:

	Per 100	Per 1000
From 2½-inch pots.	$3.00	$25.00
From 3-inch pots.	5.00	45.00

American Perfection, freest blooming bright pink, Bride, Bridesmaid, Mermet, Climbing Perle, La France, pink and white, Christine de Noue, Meteor, Perle, Mme. Pierre Guillot, Niphetos, Safrano, Bon Silene, Isabella Sprunt.

American Beauty, 2-inch $5.00 per 100

Plant Stakes (Canes), 5 to 8 ft. in height, in bundles of 500. $3.00 per 1000, f. o. b.

Young Chrysanthemums, for raising prize flowers, 50 leading sorts . . $1.00 per 100; $25.00 per 1000

Allernantheras, red or yellow . . . $20.00 per 1000

Smilax, 2 inch $20.00 per 1000

Young Palms, 1 year old . . $35.00 per 1000

Address NANZ & NEUNER, Louisville, Ky.

FOR SALE.

Choice lot of young rose plants out of 2½ and 4-inch pots. Mermets, Brides, La France, Perles and **Bridesmaids.** Apply

GORDON PARK GREENHOUSES,

Glenville, Cuyahoga Co., Ohio.

ROSE PLANTS.

6,000	AM. BEAUTIES, 4-inch pots,	$90.00
2,000	BRIDES, 3½-inch pots,	45 00
1,000	PERLES, 3½-inch pots,	45.00
1,000	MERMETS, 3½-inch pots,	45.00

Cool grown, for our own use.

All very choice. Have never seen our Beauties equaled. Would be cheap at $125.00. Will pay for themselves before others bloom, and always lead.

BRANT & NOE, Forest Glen, Ill.

or *L. M. NOE, MADISON, N. J.*

AMERICAN BEAUTIES.

Strong plants from 2½-inch pots, $50.00 per 1000.

From 3-inch pots, $70.00 per 1000

TESTOUTS.

From 3-inch pots, $60.00 per 1000.

J. T. ANTHONY,

2205 Michigan Ave., CHICAGO.

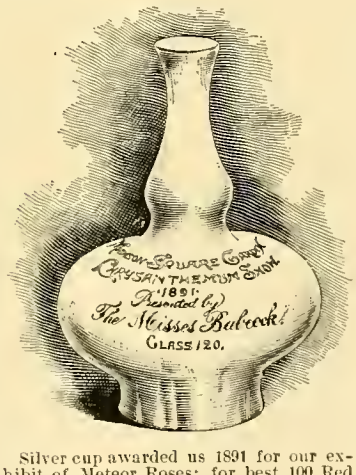
WINTER FLOWERING ROSES



We devote more than half of our greenhouses to the production of Winter Flowering Roses, and have the finest range of greenhouses in this country for that purpose; they contain every improvement in regard to durability and labor-saving appliances; the rafters and purlins are of wrought iron, securing very light roofs and extreme durability. The water is warmed in very cold weather before using by the exhaust steam from the steam-pump that supplies the houses with water; liquid manure is all pumped by steam, and everything to secure the highest development of our stock, and at the least expense, has been sought for and secured, and our new range of iron rose houses, covering two acres of ground, and **devoted exclusively to the production of cut roses,** are conceded by all who have examined them to be without question the finest range of greenhouses devoted to rose culture in the United States, and we believe, in consequence, we have exceptional facilities for supplying strong young healthy rose stock at the lowest possible prices. These houses are worth examination, as they are conceded to be model houses in every way. Visitors are always welcome.

AMERICAN BEAUTY.—The largest rose and the most vigorous growing by far among continuously blooming roses, throwing up very strong stems from the base of the plant, every shoot terminated with a single flower, which is of the largest size. Color, deep rose. In foliage and size of flower it resembles the large Hybrid Perpetual or Hardy class, and is similar to Magna Charta or Gloire de Paris. It is as fragrant as the most fragrant of Hardy roses, which, coupled with its vigor, large size and beautiful color, long stems and continuous bloom, places it at the head of Winter blooming roses. It requires skill and favorable conditions to flower it in perfection, but when successfully flowered no other rose approaches it for beauty or profit. 2¼-inch pots, **$10.00 per 100; $90.00 per 1000.**

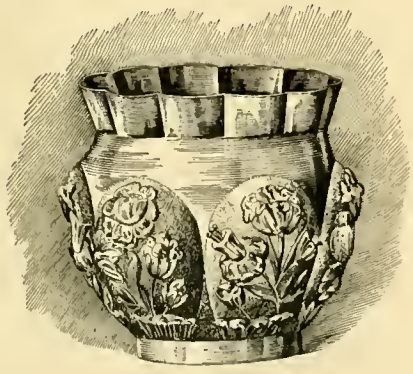
MME. CAROLINE TESTOUT.—This rose has attracted more attention than any rose sent out since the American Beauty. It was the winner at the Madison Square Garden Chrysanthemum Show of the LANIER SILVER CUP for the best new seedling of European origin not exhibited previous to 1892, and it was constantly surrounded by an admiring group throughout the show. It is a Hybrid Tea, with a decided, though delicate tea fragrance. It is a very vigorous grower, throwing up heavy bottom shoots in profusion, and is also a remarkably free bloomer for so large and fine a rose, producing scarcely any blind wood. In form it is very similar to La France, and in size much larger. In color it is simply unequalled among pink roses, being of a wonderfully clear brilliant pink, of one solid tone, without shading of any kind. It needs no special treatment, and for a high class rose of easy culture, it is certainly unequalled. Large roses that can be cut in the half-blown state, like Beauty, are becoming yearly more fashionable and the popular taste seems to be growing in this direction; we have needed a good pink rose to meet this demand, and believe that Mme. Testout will fill the bill. Mr. Ernst Asmus says: "This is the best Hybrid Tea the French have ever sent out." Mr. W. W. Coles says: "I have grown many varieties of roses, but have never seen one with so many good qualities as the above. I shall be very much mistaken in my prediction if we do not find, within a few years, that there are a thousand Testouts grown for every hundred La France." Mr. Robt Craig says: "I want to tell you that's a nice thing. The color of Testout is its great point. In that respect it is far ahead of La France. It will keep in the cellar for three or four days, and as the color fades it keeps a pleasant shade." Growers, Retailers and Flower Buyers are alike enthusiastic in its praise, and in our opinion this rose is destined to win a high place and prove very profitable to the grower. First premium awarded us for this variety, N. Y. Chrysanthemum show, Fall, 1893. Price, 2¼-inch pots, **$8.00 per 100, $75.00 per 1000.**



Silver cup awarded us 1891 for our exhibit of Meteor Roses; for best 100 Red Roses of any variety.

KAISERIN AUGUSTA VICTORIA.—A new rose of German origin that is attracting a great deal of attention and promises to be of great value. In color it is midway between Bride and Mme. Hoste, a delicate cream white. The buds are both larger and longer stemmed than those of Bride. The habit of the plant is singularly strong, vigorous and healthy; the flower is most deliciously fragrant. Winner of the Silver Cup offered by the F. R. Pierson Company, at the Madison Square Garden Chrysanthemum Show for the most promising forcing rose never before exhibited at a New York show. First premium New York Chrysanthemum Show, Fall, 1893, awarded us for this variety. Price, 2¼-inch pots, **$8.00 per 100; $75.00 per 1000.**

BRIDESMAID.—(Originated by Frank L. Moore.) This is the rose we have all been waiting for—*a Mermet whose color is constant* through all kinds of weather. Mermet has always been acknowledged as more nearly approaching perfection than any other pink rose, its one fault being its tendency to lose color in dark weather. In the *Bridesmaid* we have it with this one fault corrected, and every good trait unchanged. It is identical in form, habit of growth and freedom of bloom with its parent, and, unlike Waban, it never produces malformed buds. Many of the largest and most wide-awake growers about New York intend to discard Mermet and plant Bridesmaid in its place the coming season, and we believe results will prove their wisdom, as its uniform good color causes it to bring a correspondingly uniform good price, and hence makes it much more profitable. The past winter it has brought fifty per cent more than Mermet; when it is realized that it is fully as free of bloom, no more need be said on this point. We won *First Prize* two successive days at the Madison Square Garden Chrysanthemum Show, fall of 1892, for this variety. Mr. T. J. Slaughter, who has been a large and very successful grower of Mermet, voices the universal verdict when he says: "It gives me great pleasure to give the Bridesmaid my hearty recommendation; from my experience with it this year *I am convinced it will supersede the Mermet entirely*, owing to its better color and greater market value. I intend to give it all the room I can possibly spare. I think growers will go strong for it next year." 2¼-inch pots. **$8.00 per 100; $75.00 per 1000.**



Silver Cup awarded us for Meteor Roses, exhibited at Madison Square Garden, 1892, for best 25 Red Roses of any variety.

METEOR.—The finest crimson rose for winter blooming; very double and very dark velvety crimson scarlet, its only fault being a tendency to become black during the shortest days of winter, but when well grown it is not excelled; a superb variety. We grow this rose very largely, and won a Silver Cup at the Madison Square Garden Chrysanthemum Show, for the best twenty-five blooms, also both first and second prizes for the best twelve blooms. We are recognized as having the best stock about New York, and are headquarters for this variety. In 1893 we again received First Premium for our exhibit of Meteor at the New York Chrysanthemum Show, and also a **Bronze Medal at the World's Columbian Exposition in Chicago,** for our exhibit of this variety. 2¼-inch pots, **$6.00 per 100; $55.00 per 1000.**

SOUVENIR DE WOOTTON.—A very valuable scarlet-crimson, much like Jacqueminot in size and color; an easy variety to flower and has a delicious fragrance. Throws good stems, but frequently in clusters, in which case, by disbudding, the size of the flower is largely increased. The best crimson Winter-flowering rose at the present time **"for general use,"** all things considered. 2¼-inch pots. **$6.00 per 100; $55.00 per 1000.**

MME. CUSIN, PERLE, MERMET, NIPHETOS and BRIDE, $5 per 100; $45 per 1000.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, N. Y.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remembe it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

WE HAVE RECEIVED from Secretary L. A. Goodman of Westport, Mo., a copy of the 36th annual report of the State Horticultural Society of Missouri. It contains a great deal of matter of interest to the general horticulturist, and there are some very readable essays upon floricultural matters as well. One thing upon which Mr. Goodman is to be especially congratulated is the very full and complete index to the contents of the volume. The secretaries of other horticultural societies would do exceedingly well to follow Mr. Goodman's lead in this direction. There is now buried in the reports of the various horticultural societies a great deal of valuable information that is utterly lost on account of the absence of an adequate index.

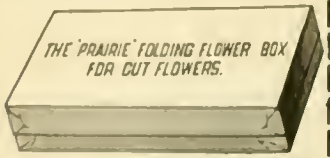
THE Montana Agricultural Experiment Station is now fully organized at Bozeman with Mr. S. M. Emery as Director. Mr. Emery is quite well known to the trade through his long connection with the Jewell Nursery Co. of Lake City, Minn. It is not often that an experiment station is fortunate enough to secure the services of such a thoroughly practical and well informed man, and the Montana authorities are to be warmly congratulated. We shall look for numerous reports of real practical value from the Montana station.

THE Herendeen Mfg. Co. has added a new boiler to their list. It is named "Fuhrman, Jr.," and is designed for heating small conservatories, etc., for which the smallest of their old sizes were too large.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

Asphaltum on Steam Pipes.

Will some reader of the FLORIST who has had experience in using asphaltum on steam pipes please state through the columns of the FLORIST its effect on plants and roses. Also, does it act in any way as a non-conductor of heat? Would you advise using it? A.



FOLDING PAPER BOXES for CUT Flowers.

Made from heavy Manilla lined, Strawboard. Shipped flat, packed 100 in a crate.

CHICAGO FOLDING BOX CO.,

Jackson & Clinton Sts., CHICAGO.

TELEPHONE MAIN 678.

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CORBREY & McKELLAR,

Wholesale and Commission Florists,

Phone Main 4508. 64 & 66 Wabash Ave., CHICAGO.

We are prepared to fill your orders with First-Class Flowers. Give us a trial order.

FOR DECORATING, NOTHING CAN EQUAL

ASPARAGUS PLUMOSUS NANUS.

CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.

Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.

W. H. ELLIOTT, Brighton, Mass.



Hardy Cut Ferns,

BOUQUET GREEN,

Laurel and Green Festooning, Wreaths, Etc.

SPHAGNUM MOSS IN ANY QUANTITY.

H. E. HARTFORD, 18 Chapman Place, BOSTON.

Long's Florists' Photographs.

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WELCH BROS., Boston, Mass.
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MARSCHUETZ & CO., Philadelphia, Pa.
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E. H. HUNT, 79 Lake St., Chicago.
J. C. VAUGHAN, Chicago.
T. F. KEENAN, 45 Lake St., Chicago.
C. A. KUEHN, 1122 Pine St., St. Louis, Mo.

Priced Catalogue free on application.

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St. Louis, Mo.

C. A. KUEHN,

(Successor to ELLISON & KUEHN),

WHOLESALE FLORIST,

1122 PINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

CHRYSANTHEMUM NIVEUS.

Now ready, from 2-inch Pots, strong plants, price, $1.50 per dozen; $10.00 per hundred.

DAILLEDOUZE BROS., Flatbush, L. I., N. Y.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

GEORGE A. SUTHERLAND,

SUCCESSOR TO

PECK & SUTHERLAND,

Successors to WM. J. STEWART.

CUT FLOWERS

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67 Bromfield St., BOSTON, MASS.

New England Agent for the GREAT ANTIPEST.

WHOLESALE FLORISTS

JOBBERS IN FLORISTS' SUPPLIES, FLORISTS' VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

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HORTICULTURAL AUCTIONEERS.

WELCH BROS.,

Wholesale Florists,

NO. 2 BEACON STREET,

Near Tremont St., BOSTON, MASS.

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Wholesale Florist

4TH AND WALNUT STREETS,

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DAN'L B. LONG,

WHOLESALE CUT FLOWERS,

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and FLORISTS' SUPPLIES.
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The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
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NEW YORK, June 9.

Roses, ordinary varieties	1.00@ 4.00
" same (per thousand)	10.00@15.00
" Beauty	3.00@20.00
Carnations	1.00@ 2.00
Harrisii	8.00@10.00
Valley	2.00@ 4.00
Callas	6.00
Sweet peas	.50@ .75
Mignonette	1.00@ 2.00
Marguerites	.25@ .50
Smilax	6.00@10.00
Asparagus	50.00
Adiantum	1.00

BOSTON, June 9.

Roses, Niphetos, Gontier	2.00@ 3.00
" Perle, Sunset	2.00@ 4.00
" Bride, Mermet	2.00@ 5.00
" Jacqs, Brunner	5.00@15.00
Carnations	1.50@ 2.00
Harrisii	8.00@10.00
Lily of the valley	4.00@ 5.00
Mignonette, Marguerites	1.00
Stock, astilbe	2.00@ 3.00
Sweet peas	.50@ 1.00
Adiantum	1.00
Smilax	12.00@15.00
Asparagus	50.00

PHILADELPHIA, June 9.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watteville, Hoste	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 5.00
" Kaiserin, Bridesmaid, Testout	5.00@ 8.00
" Belle, Beauty	10.00@25.00
" Jacqs	10.00@15.00
Carnations, fancy	2.00@ 3.00
" good ordinary	.75@ 1.25
Valley	3.00@ 4.00
Yellow daisies	4.00
Mignonette	1.00
Asparagus	50.00@75.00
Harrisii lilies	6.00@ 8.00
Sweet peas	.50@ 1.00
Cornflower	.50@ .75
Pæonies	4.00@ 6.00
Cattleyas	40.00
Orchids	15.00@40.00
Smilax	12.00@15.00

CHICAGO, June 12.

Roses, La France, Bride, Mermet, Wootton	3.00@ .400
" Meteor, Bridesmaid	4.00@ 5.00
" Perle, Gontier, Niphetos	2.00@ 3.00
" Beauty	12.00@18.00
Carnations, long	.75@ 1.00
" fancies	2.00@ 3.00
Longiflorum	8.00
Pæonies	3.00@ 4.00
Sweet peas	.35@ .40
Gardenia	1.00@ 2.00
Smilax	15.00@18.00
Adiantum	1.00@ 1.24

CINCINNATI, June 11.

Roses, Beauty	10.00@15.00
" Mermet, Bride	3.00@ 4.00
" Niphetos	4.00
" Perle	2.00@ 3.00
Carnations	1.00
Alyssum	.15
Sweet peas	.50@ 1.00
Valley	2.00@ 3.00
Smilax	15.00
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, June 11.

Roses, Perles, Niphetos, Wootton	2.00@ 3.00
" Bride, Mermet, Bridesmaids	3.00@ 4.00
" Meteors, Jacqs	4.00@ 6.00
" La France, Albany, Hoste	2.00@ 4.00
" Beauty	5.00@15.00
Sweet peas, colored	.35@ .50
" " white	.75
Coreopsis	.50@ .75
Carnations, long	1.00
" short	.50
Adiantum	1.00
Smilax	15.00@
Ferns, common, per 1000	$1.25

BUFFALO, June 11.

Roses, Beauties	10.00@20.00
" Mermet, Bride	4.00@ 5.00
" Meteor	4.00@ 5.00
" Gontier, Perle, Hoste	3.00@ 4.00
" Cusin	3.00
Harrisii, longiflorum	8.00@10.00
Carnations, long	1.50
" Daybreak	1.50@ 2.00
" short	.75
Valley	3.00
Sweet peas	.50
Pæonies	3.00
Smilax	15.00@20.00
Adiantum	1.25
Asparagus	50.00

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For 1894
IS NOW READY.
PRICE $2.00.
American Florist Co.,
DRAWER 164. CHICAGO.

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SPECIALTIES:
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Bridesmaid,
Meteor,
Sweet Peas.
BURNS & RAYNOR,
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DESIRABLE STOCK FOR
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The product of the most extensive and successful growers for the New York market.
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Roses Shipped to all points. Price list on application.

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Careful Shipping to all parts of the country. Price list on application.

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Established 1879.

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Philadelphia, Pa.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York.

The Seedsmen's Convention.

Taken all in all the Toronto convention was one of the strongest and best attended in the history of the American Seed Trade Association. Over twenty new members were admitted during the morning session Tuesday.

The following were present: President W. Atlee Burpee and wife, Secretary A. L. Don, John H. Allan and wife, Henry Phillips and wife, S. F. Willard, S. W. Flower, F. Griswold, S. E. Briggs, W. H. Marcon, T. W. Wood, Irwin B. Clark, Frank Ford, R. C. Steele, H. M. Wall, F. A. Stecher, J. E. Northrup, C. S. Burge, E. V. Hallock, S. Y. Haines, F. T. Emerson, Geo. Crosman, W. W. Rawson, Walt Simmers, S. M. Pease, F. S. Platt and wife, E. M. Parmelee, A. N. Clarke and wife, E. B. Clarke and wife, W. Langbridge, J. B. Rice and wife, S. D. Woodruff, L. Morrison, C. L. Allen, H. M. Clair, E. W. Burt, W. H. Grennell, Wm. Rennie, F. W. Barteldes, H. A. Johns, R. Engelman, A. Currie, J. T. Huntington, E. H. Hunt, Thos. M. Hunter, Col. W. S. King, Geo. S. Green, Chas N. Page, M. Fell, C. P. Braslan, J. C. Vaughan, D. I. Bushnell wife and son, J. Chas. McCullough wife and child, A. J.Brown, W. S. Hammon.

Among new members admitted were Geo. Keith, William Rennie, E. H. Hunt, William Eber & Son, Thos. Emerson, S. H. Downs, Cratz Bros., Morehouse & Co., Rademaker & Co.

On Tuesday an interesting paper on "Root crops" was read by S. E. Briggs of Toronto. It will be published in our next issue.

On Wednesday, on the invitation of the Toronto Seed Trade the entire party embarked at 11:30 a. m. for a two hours ride on the lake, returning at 2 p. m. for luncheon at Webb's. Following this the City Council gave the party an extended carriage ride through the parks and beautiful drives of the city.

THE FOLLOWING PARTY left Chicago Sunday night, June 10, for Toronto: F. W. Barteldes, H. A. Johns, R. Englemann, A. Currie, J. T. Huntington, E. H. Hunt, Thos. M. Hunter, Col. W. S. King, Geo. S. Green, Chas. N. Page, W. Fell, Chas. P. Braslan and J. C. Vaughan. On arriving at Detroit at 8 a. m. the delegation breakfasted at the Cadillac, where they were joined by D. I. Bushnell, wife and son; J. Chas. McCullough, wife and child; A. J. Brown, W. S. Hammon of Kansas City, J. M. Phillips of Toledo. After visiting the local seedsmen the entire party left at noon via the Canadian Pacific for Toronto, arriving there (Queens Hotel) at 9 o'clock Monday night.

F. W. BARTELDES & CO., at Lawrence, are doubling their storage room, adding a 3-story warehouse 50x110 feet. At one end of the building will be placed a panel bearing the Barteldes escutcheon, a "Long Green" rampant, with the motto above, "Put it on the loft." The date of the dedication has not yet been fixed, but due notice will be given.

THE ONION SET crops in the vicinity of Omaha and Kansas City are looking fairly well, although the yield will be a little shortened by the drought.

T. LEE ADAMS left last week for a five weeks trip to California.

THE N. B. G. Co. at Chicago have doubled their floor space for storage.

THE NEW SWEET PEA Blanche Burpee is not likely to be placed on the market until 1896.

ALFRED UNGER, of Yokohama, Japan, passed through the States last week on a trip to Europe.

MR. HENRY A. SALZER and Mr. Chas. P. Braslan expect to make a trip to Europe, sailing about July 10.

MR. JOHN BUCKBEE of Rockford, Ill., is visiting Washington and other eastern points and will sail from New York for a European trip the latter part of this month.

F. BARTELDES & Co. have purchased a controlling interest in the Trumbull, Strean & Allen Seed Co., Kansas City, Mo., Messrs. Strean & Allen retiring. It is reported that the business will be continued under the name of the Trumbull Seed Co. Rumors of an export house in New York in this connection, are floating in the air.

U. S. Department of Agriculture.

WHAT A CONSTITUENT NEEDS.

Rather a funny letter was read to the house yesterday by Representative Pickler of South Dakota, while the agricultural bill was under consideration, says the Washington *Post*. Mr. Pickler has a constituent named James Wells, living at Britton, S. D., and Mr. Wells, or rather Mr. Wells' wife, wants some garden seeds. So he made his appeal in the following words:

I would like some seventy-day corn, and if the new administration has any new silver seed that will produce standard silver dollars or even Mexican dollars in about sixty days I would like some of that. Our land is well adapted to the raising of silver. We would like something that would yield 1,000 bushels to the acre and sell for $1 a bushel. We have not farmed much, but are looking for anything new or profitable. Some of our friends say German carp is a good crop. We will put in a few acres of carp for a starter if we can get the seed. Some of our kind friends recommend ostriches, but they grow so few in a hill that we will not venture to try them. There is a small lake near our farm and my wife is anxious to raise some gondolas. They are an Italian bird, I believe. The climate here is severe, but she thinks she could raise them by keeping them near a hard coal burner in the winter season. If Mr. Morton could be prevailed upon to send us a pair of young ones we would esteem it a great favor. We could use some canvas-back duck seed to good advantage. We want to try some hard coal seed this year, as we have paid $10 a ton for coal about as long as we care to. One of my young sons has a desire to raise a pair of elephants to break our land with. Do you think Mr. Morton would be willing to send us a couple of elephant eggs to try the experiment? Some of our advanced thinkers advise me to raise a crop of plug tobacco. In selecting seed I wish you would send "Spear Head," "Climax" or "Star." The climate is too dry for fine cut. If the department has anything new in jack rabbits I would like a few vines that would bear the second year.

DO YOU WANT a list of firms in the trade that issue catalogues, with key showing proportion of space given each branch of the trade in same? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

COLEUS.

25,000 COLEUS, VERSCHAFFELTII and GOLDEN BEDDER (true); 10,000 COLEUS, assorted, in 50 varieties, fine plants, pot grown, ready now, $20.00 per 1000. Cash with order.

C. F. FAIRFIELD, Florist,
SPRINGFIELD, MASS.
Mention American Florist.

Grow Swainsona.

The best and most profitable pure white flower grown. Takes the place of Roman hyacinths or lily of the valley, producing spikes of flowers from 4 to 6 inches long, in the greatest abundance the entire year—never out of bloom—lasting well when cut. 100 Swainsona will pay you three times as much as same space in best carnations. No florist should be without this most useful flower. After a trial it will be considered indispensable.

EASY TO GROW.

An exceptionally good and paying cut flower.

Strong young plants, $6.00 per 100;
$1.50 per dozen.
Larger ones, $10.00 per 100.

FAUST & BRO.,
MERION STATION, P. R. R., PA.
Mention American Florist

ONION SEED.

CROP 1894.

Prices for New Crop made on Application.

COX SEED AND PLANT CO.
411, 413 & 415 Sansome Street,
SAN FRANCISCO, CAL.

CYCLAMEN SEEDS,

European strain.

LILIES OF THE VALLEY,

Berlin and Hamburg Pips.

FLOWER SEEDS for Fall delivery.

METAL WREATHS.

All at Import Prices.

SCHILLER & CO.,
Commission Seed Merchants,
122 E. 23rd Street, NEW YORK.

Please make us offer of all kinds of Seeds and Bulbs, we will sell it for you.
Mention American Florist.

. . DUTCH BULBS . .

PETER VAN VELSEN & SONS,
Houtvaart-Overveen near Haarlem, Holland.

Growers of Hyacinths, Tulips, Crocus, Narcissus, etc. Catalogue free on application. Special prices given for large quantities.
Established 1834.

PRICES LOWER ON
Bulbs and Plants
OF STANDARD QUALITY.
For Catalogue, address
C. H. JOOSTEN, IMPORTER,
3 Coenties Slip, NEW YORK.

WHY NOT TRY
A FEW ORCHIDS?

They are Very Cheap. They are Easily Grown. They Sell Well.
They always attract attention in store or greenhouse.

BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.
Mention American Florist.

WINTER FLOWERS

With the present low prices of Bulbs and the increasing desire for flowers among people, a great deal more ought to be done in the Bulb line.

Ten Bulbs of one variety of Hyacinths or Tulips in a pan make desirable window decorations and give a big show for little money. Large quantities of these pans are disposed of in the Boston and New York markets throughout the winter and spring.

Fitted into pretty celluloid baskets or other receptacles and encircled by ribbon of appropriate color, they are great favorites in New York City as Easter gifts.

In nearly all the largest cities the parks have been planted with spring Bulbs, this should also be done in private gardens. Nothing is handsomer on the lawn than a well arranged bed of Hyacinths, Tulips or Crocus.

It is a favorable opportunity for Florists to drum up a trade in this line.

SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE, near Haarlem, **HOLLAND,**

Offer HYACINTHS, TULIPS, DAFFODILS

And all other bulbs for forcing and outdoor, in extra fine quality, at very low rates.

PLEASE ORDER SOON. ASK FOR OUR 1894 CATALOGUE.



5,000,000 FREESIAS

Buy FIRST HAND. We will deliver Freesia Bulbs, all charges for transportation paid, as follows:

3-8 to 3-4 inch per 1000, $4.00
1-4 to 5-8 inch per 1000, $3.00

Liberal discount on larger lots. Send for our price list.

Order NOW your Japan Bulbs, Longiflorum, Auratums, Rubrums, Albums, we are Headquarters. We are the ONLY FIRM in the U. S. who guarantee you SOUND BULBS delivered.

Address all communications to

H. H. BERGER & CO.,

(Established 1878.) SAN FRANCISCO, CAL.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

P. VOS & CO., SASSENHEIM, HOLLAND,

GROWERS OF

Hyacinths, Tulips, Crocuses, Narcissus, etc.

WE ARE ABLE TO QUOTE THE LOWEST PRICES FOR WHOLESALE DEALERS.

VAN ZONNEVELD BROTHERS & CO.

SASSENHEIM, - HOLLAND,

— GROWERS OF —

HYACINTHS, TULIPS, NARCISSUS, ETC.

Now ready to quote our lowest prices for Wholesale Importers.

THE GREAT ANTIPEST.

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,

291 Amity Street, FLUSHING, Queens Co., N. Y.

SMILAX, nice plants in 2½-inch pots, $2.00 per 100; $15.00 per 1000.

Transplanted Seedlings, $1 per 100; $8 per 1000.

A few hundred Roses—Meteor, Perle and Hoste, 3-inch, ready for a shift, $6.00 per 100.

JOSEPH E. BONSALL, Wholesale Florist, Salem, O.

St. Louis.

The weather continues to be quite warm and dry. Outdoor stock of all kinds is suffering for lack of moisture, this having been the dryest spring known for several years. Planting out and the spring plant trade are about over, and have not averaged so poorly as was expected. Cut flowers have held their own during the week, being in short supply on several days. The almost universal request made by schools and institutes that flowers be not presented to graduates has had quite an effect on trade; one firm in speaking of the matter estimates the loss to the florists to amount to $5,000. This feature has been steadily growing for some years past; it is to be hoped however that a change will come in a short while.

The handicap meetings of the Bowling Club are proving very interesting. At the last meeting Robert Beyer made the highest score of the present series, having 264 pins to his credit. R. F. T.

A Decision Reversed.

The decision announced on page 1,000 of our issue for May 17 in the case of Krick vs. Jansen has been reversed by the U. S. Circuit Court of Appeals for the second district. In concluding his decision upon the appeal by Mr. Jansen the court says: "We do not perceive in the floral letter with the holes, notwithstanding its popularity, a patentable improvement upon the wooden cross or wreath. This result obviates the necessity of examining the question of infringement. The decree of the Circuit Court is reversed with costs and the case is remanded to that Court with instructions to dismiss the bill with costs of the Circuit Court."

Grafting Extraordinary!

The *Boston Globe* has found out how it is done and prints the following description:

L. F. Seaver of North Somerville, who is popularly known as the pansy king, had on exhibition at the last display in Horticultural hall some exquisite double ruffle pansies. Mr. Seaver is the first man who ever produced these pansies. He obtained the result by grafting a rose on a pansy plant and bedding the plant in pulverized charcoal and blood.

No wonder the pansies had double ruffles. Such a graft should have produced flowers ruffled, fluted, pleated, and cut low enough for evening wear.

AMERICAN GROWN DUTCH BULBS.

To introduce my American grown Narcissus for forcing by florists I make the following special offer. *Bulbs ready now.*

	Per 100
NARCISSUS CAMPERNELLE, - -	$.75
DAFFODIL RUGILOBUS, - - -	1.50

I would like to correspond with any one desirous of going into the business of growing Dutch bulbs in America. I have a stock of 100,000, in 10 to 18 varieties.

South Carolina is the very best section of the U. S. for the growing of these bulbs. I have successfully demonstrated this, and can offer a splendid opening to a man with some capital and familiarity with horticultural work

MRS. J. S. R. THOMPSON,
. . . SPARTANBURG, S. C.

Our buyers will visit Holland, Southern France and Bermuda during the month of June, and orders placed with us now will have most careful personal attention by them.

IMPORT BULB PRICES.

ROMAN HYACINTHS, and all French Bulbs.
LILIUM HARRISII AND DUTCH BULBS.

NOW is the time to order. We are quoting the lowest rates of the season.

APPLE GERANIUM SEEDS, new crop, per 100, 25c ; per 1000 $1.25.

NEW YORK: 26 Barclay Street. VAUGHAN'S SEED STORE 146-148 W. Washington St., CHICAGO.

FORCING BULBS.

ADVANCE CONTRACTS. We can make most favorable prices on all kinds of FORCING BULBS for summer and fall delivery. Our reputation for high grade stock is well established. Please send us your list to figure on.

WE ARE CLOSING OUT NOW: Tuberoses, Dwarf Pearl or Tall Double, at $6.50 per 1000; 75 cents per 100. Gladioli, finest mixed, $10.00 per 1000.

PRIMULA CHINENSIS. Finest fringed varieties.

	Trade pkt.		Trade pkt.
ALBA, white	50 cts.	CHISWICK, red	50 cts.
KERMESINA SPLENDENS, carmine	50 cts.	ALBA MAGNIFICA, large pure white	50 cts.
DOUBLE FRINGED VARIETIES, producing a large percentage of double flowers	50 cts.	MIXED, leading colors only	50 cts.

W. W. BARNARD & CO., 10 N. CLARK ST., CHICAGO.

DUTCH BULBS.

ELDERING BROTHERS, of OVERVEEN, HOLLAND,

One of the oldest and most reliable Dutch houses, offer the best of facilities to American buyers, having a resident Agent in New York thoroughly posted on this stock and who will make all customers' entries, with quick deliveries in good order, from New York City. Latest reduced price list sent free.

JOHN W. ELDERING, 78 Barclay Street, NEW YORK.

Orders Booked Now



for Future Delivery:

Lily of the Valley, forcing pips; Roman Hyacinths, Narcissus, Spiræa, and all forcing bulbs. Azalea, Rhododendron, Roses, etc., plants. Address

August Rölker & Sons,
136 & 138 W. 24th St., New York.
P. O. Station E.

SEEDS! PLANTS! BULBS!

Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

PITCHER & MANDA,

SHORT HILLS, N. J.,

are now prepared to quote the *Lowest Import Prices* on all kinds of

BULBS FOR FALL PLANTING,

and prospective buyers would do well to secure their prices before placing any orders.

If you are a buyer of forcing bulbs, send them a list of the quantities you require for estimate.

UNITED STATES NURSERIES,
SHORT HILLS, N. J.

Hulsebosch Brothers,

OVERVEEN, near Haarlem, HOLLAND.

Bulbs AND Plants

We are now prepared to quote lowest possible prices for next July, August and September delivery.

Illustrated Wholesale Catalogues on application.

HULSEBOSCH BROS.,
ENGLEWOOD, N. J.

Great Bargains in Calla Bulbs.

Desiring to CLOSE OUT my ENTIRE STOCK of CALLA LILIES I offer Bulbs, all sizes, VERY LOW for August delivery. Send for prices.

Will exchange splendid large Bulbs of Polyanthus Narcissus mixed, for Rex Begonias.

MRS. THEODOSIA B. SHEPHERD,
VENTURA-BY-THE-SEA, CAL.

PLEASE mention the AMERICAN FLORIST every time you write to an advertisers.

ZIRNGIEBEL GIANT PANSIES.

Owing to favorable weather, have been simply magnificent, this season, and our seed beds are a sight to behold. Never before have we obtained such size and colors, and as usual, wherever exhibited, have eclipsed everything else, receiving also the most flattering testimonials from the leading florists and seedsmen all over the country.

We will have new Seed to offer on about July 1st of our popular strains

THE GIANT MARKET AND GIANT FANCY

in trade packages of 2000 and 500 seeds respectively, with practical directions to sow and grow our pansies.

Also plants for sale later on.

DENYS ZIRNGIEBEL,
. . . NEEDHAM, MASS.

SPECIAL.

For sale in 3-inch pots, well grown, strong plants, f. o. b. on cars at our place. No charge for packing.

TERMS: Three months, or 10 per cent. off for cash in five days. . . .

PAPA GONTIERS, MARIE GUILLOT,
BRIDE, SUNSETS,
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BRUNNERS, MERMETS,
MAGNA CHARTA.

LA ROCHE & STAHL FLOWER CO.
LIMITED.
COLLINGDALE, Del. Co, PA.

CROPP'S
RIESEN PENSEE
neue ernte fertig mitte Juni. Blumen uber 3 zoll im Durchmesser, schone Form, meist helle Farben, von unubertrefflicher Qualitat. 1000 Korn $1.00; 5000 Korn $4 in Briefmarken oder Post Anweisung.
CARL CROPP,
Erfurt, Germany.

Hardy Water Lilies.

LARGE RHIZOMES.

	Per Doz.	Per 100
NYMPHÆA Odorata	$1.00	$ 7.50
" Gigantea	1 00	7.50
" Minor	1.00	7.50
" Tuberosa	1.00	7.50
" Rosea	2 00	15.00

GEORGE FARRANT, Salem, N. C.

CELERY PLANTS

WHITE PLUME, GIANT PASCAL, GIANT GOLDEN HEART and GOLDEN SELF BLANCHING.

Field-grown plants, $1.25 per 1000.

The New PINK PLUME, transplanted plants, $3.50 per 1000. Cash with order.

Sample mailed free.

C. M. GROSSMAN, Wolcottville, Ind.

RUBBERS.

Tree grown, three to eight branches, very fine stock, $12.00 to $25.00 per dozen.

PALMS, leading varieties at bottom prices.

J. T. ANTHONY,
2205 Michigan Ave., CHICAGO, ILL.

ERNST RIEMSCHNEIDER, Altona, Hamburg
LILY OF THE VALLEY PIPS, BULBS AND CHOICE SEEDS ETC.
CATALOGUES FREE. SOLE AGENTS FOR U.S. AMERICA & CANADA.
C. C. ABEL & CO. BOX 920 NEW YORK.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

ROSES, all the very best both new and old.

CHRYSANTHEMUMS, the cream of all the long list now offered, in extra fine plants now ready for immediate delivery.

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Herr's Pansies are THE Pansies. See adv. later on.

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Other Columbian Novelties see catalogue.

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2000	Uncle John	$10 00 per 100; $75.00 per 1000
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Cincinnati.

The florist cannot complain of slow business this week, as everything in the shape of flowers has sold well. The wholesale houses have not been able to fill orders, and the retail trade has been booming. Wedding decorations and funeral work seem to have the lead. Fred Walz had a nice decoration at the Grand Hotel on account of the state meeting of druggists. Julius Baer has several nice wedding orders. Chas. J. Jones, Jr., reports a good trade at both of his establishments, having recently built a greenhouse and store on East Walnut Hills; he also has quite a trade in bedding plants. B. J. Glins of Cumminsville, who has six houses 16 by 60 feet, reports a splendid trade in miscellaneous stock. Decoration Day took all the blooms that were in sight.

We have one firm here who makes a specialty of forcing lily of the valley, and exhibits untold energy to fill orders. One day this week, having a large order for valley and getting a little nervous regarding getting same in, they adopted this plan: Setting the boxes containing the pips on the steam pipes Ben lighted two coal oil lamps and put under said boxes, then he placed two chairs with a board on same, and we will say a rock under his head for a pillow. On this contrived bed Ben stretched out and with warm water sprayed the valley all night. He filled his orders. Should any person disbelieve this story he can address Ben George of the firm of Magree & George, College Hill, O.

We also have quite a number of the boys who like a horse race quite as well as a flower, and most any afternoon you can see them going or coming from the Latonia race course; "of course they would not bet on the races."

Our flower market is a grand success; most any Saturday afternoon it looks like a flower show. Inside this market are thirty-nine stands stationary, and space for ten or twelve through the middle. At present there are forty-three florists occupying space in said market. They pay an annual rental of from twenty to forty dollars per stand. This money goes to paying the superintendent's salary, and other necessary expenses. The superintendent is in uniform, and with police authority, so the boys keep pretty straight.

The appraisers in the Critchell assignment have finished their work, and it is to be hoped that Mr. Critchell will be on his feet again in a short time.

Visitors in the city this and last week were as follows: E. G. Hill of Richmond, Ind.; John Bertermann of Indianapolis; John Lodder of Hamilton, O.; Fred Weltz of Wilmington, O., and J. H. Bowers, Hillsboro, O. All these gentlemen have good reports to offer for the year's business now ending.

Quite a number of florists from Cincinnati will attend the meeting of the S. A. F. at Atlantic City. We already have very good rates offered, and should like to hear from any brother florist in our territory.

G.

SMILAX.

Strong plants, last season's sowing, will begin to run at once. From 3-inch pots 75 cts. per dozen; $5.00 per 100; $45.00 per 1000.

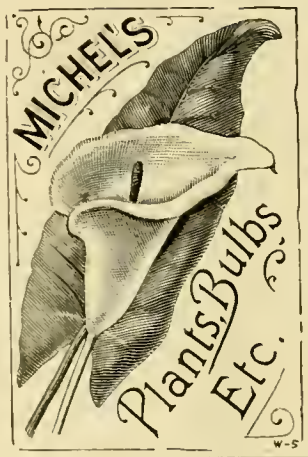
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6-inch pots, strong, $9.00 per dozen.

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Lil. Auratum, Spec. Rubrum and Album, Etc.
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Fuchsias, best varieties, nice, 2½-inch pots	$2.00
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One Hundred Rooted Cuttings for $1.00.

Twenty-six choice kinds, including one each
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We list here only the principal varieties, of which we have a large supply. For a general list refer to our Spring Trade List, which describes over seventy-five varieties including all the desirable novelties of the season.

	Per 100
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Paul Marquant	8.00
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ALTERNANTHERA P. Major by mail.....50c per 100

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Eichhornia (Pontederia) Crassipes Major (Water Hyacinth), $2.00 per 100, prepaid, or $8.00 per 1000, not prepaid.

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Nelumbium Speciosum	$.40	$5.00	$25.00
Nymphæa Oevoniensis	.50	5.00	
" Flava	.20	2.00	8.00
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Small plants of N. Zanzibarensis and N. Dentata, 10c each, or seeds 10c per large packet, or $2.00 per ounce, not prepaid.

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Best German Strain. New Seed.

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" " pink Rosa Marienthal	4.75
" " white with red	4.75
" " best white	5.50
" " mixed all colors	4.50
" " mixed all colors 75c 100 seed.	

Cash with order.
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AUGUST BECKER,
Lexington, Ky.

Cleveland.

Among some of the choice decorations done this spring mention might be made of an elegant dinner at an uptown residence. The table was very large, being some thirty feet long and oval. In the center was placed a round basket of pink pæonies and marguerites, radiating from which were garlands of pink roses and marguerites, oval in shape and extending the full length of the table. These garlands were tied at either side with wide bows of pink ribbons. The effect of the whole was beautiful and chaste in the extreme.

At the wedding of Miss Cady the church and Stillman hotel were elaborately decorated. The bridal party received in a floral bower composed principally of roses. The dining room was decorated with Watteville roses, there being a large center piece of this rose, and small crescents of the same strewn carelessly over the cloth.

One of the odd and beautiful (?) designs lately called for was a pugilistic arm in a *striking* attitude. This was of gigantic size. It was made of Daybreak carnations, and rested on a bed of ferns—it was used for the dinner of an athletic club.

Mrs. Hanna of Lake avenue gave a reception this week, at which the floral decorations were on a lavish scale. The house throughout was decorated with palms, roses and orchids. There were some superb Beauties with five foot stems arranged carelessly in vases. On the lawn was a large tent used for refreshments, filled with small tables, on each of which was placed a vase of mountain laurel. The poles, cordage, etc., were festooned with laurel and wild flowers. About four hundred pink and white pæonies were used; these are now in their prime.

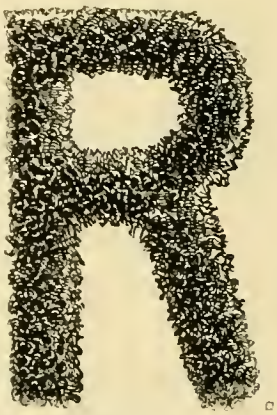
It was conceded to be the finest decoration seen about here in years, and society was loud in its praises. In one room the walls were festooned with wistaria, and in another the common yellow rose so often seen in old fashioned gardens was arranged in a careless band around the walls, which had the desired effect of a natural border of roses. In another room Marechal Niels were used for festooning and running up over the curtains; this was a most beautiful and graceful arrangement and quite a number of the guests at first thought the plant was growing there naturally. This was attained by cutting down whole plants of Marechal Niel which were in full bloom at the time.

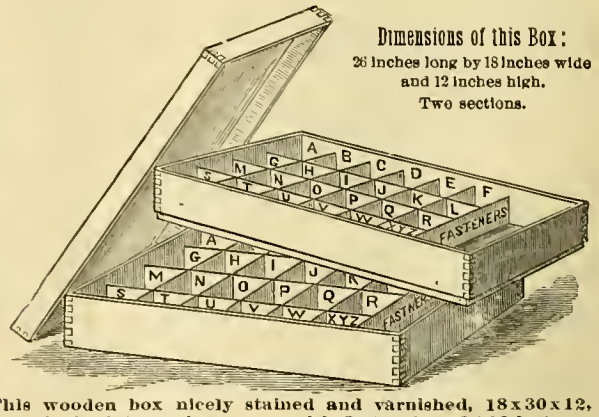
Children's day in the churches was generally observed, and all the larger churches were decorated with palms and loose flowers. At the old Stone church each child was given a chrysanthemum plant with printed instructions how to grow it.

The voice of the sweet girl graduate is heard in the land, and the heart of the florist is warming up to his oldtime gladness. Business has improved considerably of late, but it will be of short duration, as we consider the season over by the 20th of this month.

D. Charlesworth has the contract to do some fancy bedding in the public square; he is putting in some G. A. R. designs, etc., around the Soldiers Monument. We doubt the wisdom of this move, for the conditions are anything but favorable for plant life there, being entirely too much smoke and gas in the heart of the city for any kind of vegetation. Even the trees lose their beauty by the middle of July.

L. F. D.





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Small Flowers, perfectly white and good.....per lb. 50c; 10 lbs. $4.50
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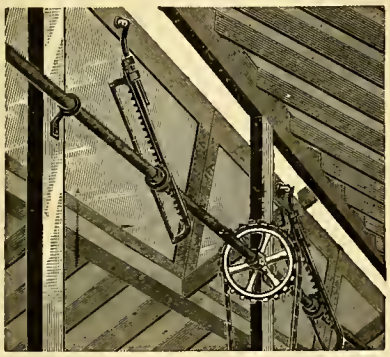
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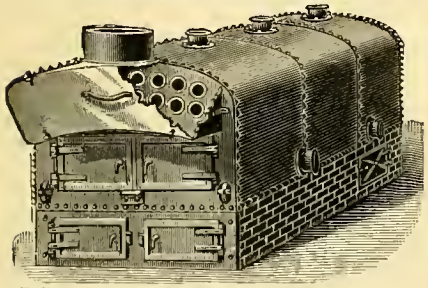
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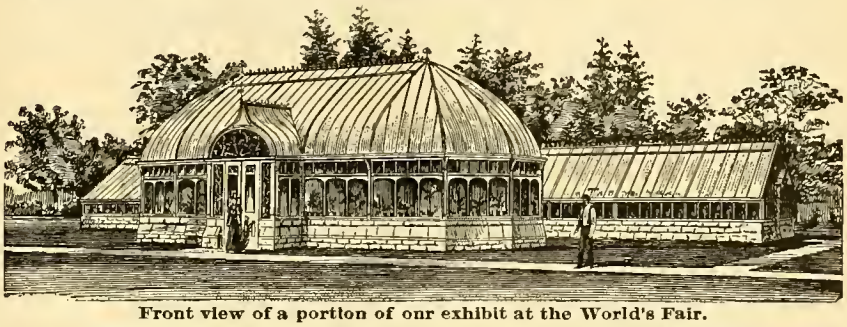
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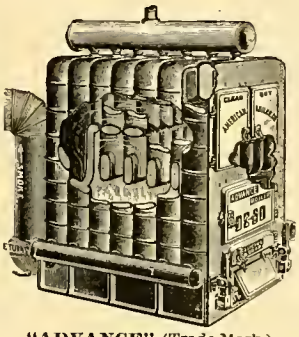
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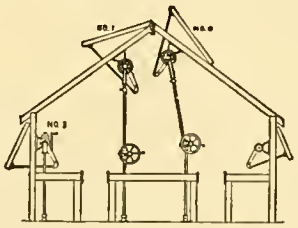
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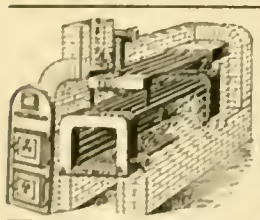


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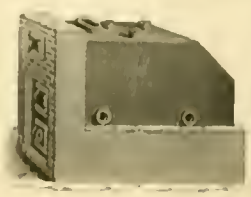
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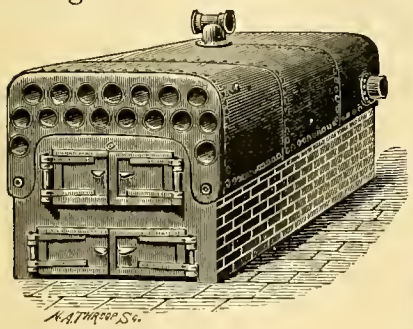
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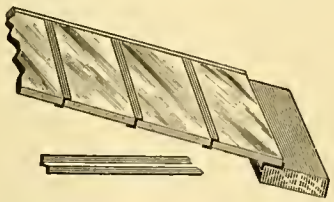
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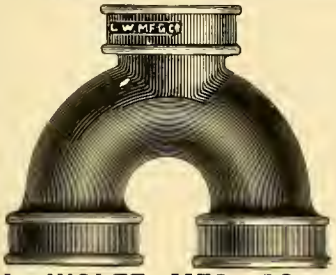
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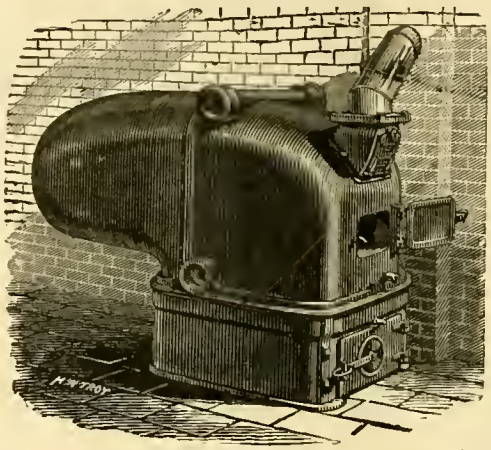
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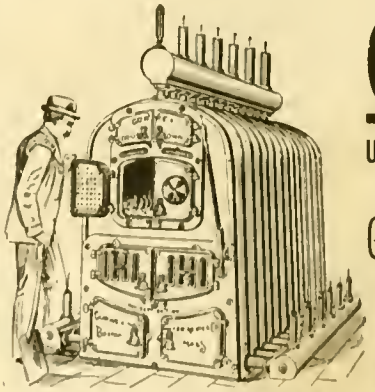
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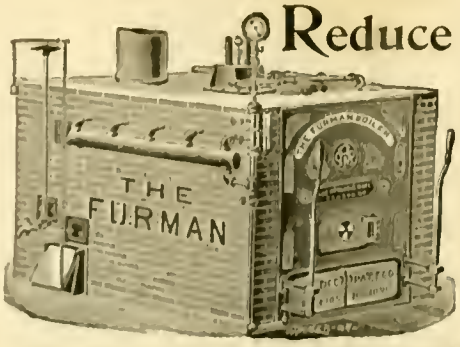
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Vol. IX. **CHICAGO AND NEW YORK, JUNE 21, 1894.** **No. 316**

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ATLANTIC CITY, N. J.,

AUGUST 21, 22, 23 & 24, 1894.

Members may remit the annual dues ($3.00) to the secretary prior to the meeting, thus avoiding the crowd and relieving the officers on the opening day. Badge for 1894 will be sent by mail to those who remit in advance of the meeting.

Intending members can obtain any information wanted by addressing the secretary.

OFFICERS:

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

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CHILLICOTHE, Mo.—We are to have a chrysanthemum show this fall. It will be given by the ladies of the Presbyterian Church. They have secured a lengthy list of special premiums from the local merchants that ought to draw out some good competition.



Coming Exhibitions.

BOSTON, June 20-21. Rose and strawberry exhibition Mass. Hort. Society.

BOSTON, Sept. 5-6. Annual exhibition of plants and flowers Mass. Hort. Society.

CHICAGO, Nov. 3-9. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.

NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex MacLellan, Sec'y, Ruggles Ave.

BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.

PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.

ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.

INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.

PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L. B. 375, So. Denver, Colo.

WORCESTER, MASS., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.

TORONTO, ONT., Nov. ——. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.

MONTREAL, Nov. ——. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.

PROVIDENCE, R. I., Nov. ——. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.

SPRINGFIELD, MASS., Nov. ——. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 John St.

MILWAUKEE, WIS., Nov. ——. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.

HAMILTON, ONT., Nov. ——. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.

Chrysanthemum Notes.

By the time that this article is in the hands of its readers, the chrysanthemum plants will be set out, and most of them will have become established in the benches, but don't for a moment think that you have got through with your work, and that they will take care of themselves, for nothing truer was ever said than that oft-quoted remark of our esteemed friend John Thorpe, "Eternal vigilance is the price of good chrysanthemums." The child is really in but its swaddling clothes, and will need close watching and careful attention from now on to next November, in order to have it shine with its competitors. After the plants are set out give the benches a good watering, and then for a week or ten days keep them a little dry, so that the roots will take hold. We do not mean by this to allow them to get so dry that they will wilt ever so little, but do not water enough to sour the soil, or root action will be retarded, and the lower leaves will turn yellow; damage will then have been done that will be irreparable, for from now on be very careful and do nothing that will give the plants any serious check.

If any shade was placed upon the houses during planting time, or previous to that, remove it at once, and let the plants make their growth in the full sunlight. We do not believe that chrysanthemums should be grown in the shade. In making this assertion we are influenced by their manner of growth in the eastern states. It may be possible that there are more sunny days throughout the summer in the central states, and we have it on very good authority that there are more bright days in the western country than in the east, and a slight shade may be to the plant's advantage, but certainly the mercury runs just as high here as it does in other parts of the country, and we do not know a grower who shades his chrysanthemum houses during the summer months. The plant grown in the full sunlight will be much sturdier and shorter jointed, and will not have the long-jointed stem sparsely covered with foliage of the plant grown in the shade.

We know it is very hard to make the American people keep a diary, but we believe every grower should keep a book into which he can make notes on the growth of his plants, and if you have one or two varieties that do exceptionally well you will then have something which you can turn to that will tell you how it was done. Too many growers trust altogether too much to their memory, and if you ask them how they procured such beautiful blooms of this or that variety, they will answer you in a very general way, that they took the cuttings about such a time, and the bud was taken, if they know at all, about such time. Now if they had put down the dates of these occurrences when they happened in black and white they could, if they so desired, tell you exactly how those blooms were produced, and at what day of the year everything important in the life of those plants occurred. The Hertford Horticultural Mutual Improvement Society published this year a book entitled "The Chrysanthemum Grower's Record" which just fills the bill for an extended and detailed memorandum, although it would require some alterations for growers on this side of the water. Each page is lined and divided into spaces for dates to be written, and the spaces have the following headings: Name, description, cuttings, inserted and rooted, potted into the dif-

ferent sizes of pots, stopped, 1st break, 2d break, buds visible and taken, crown or terminal, commenced feeding, color showing and fully out, height, housed, number of shoots, soil used, and remarks. It will not, perhaps, be necessary to go so much into details as this, but at least make a record now, of when the cuttings were inserted and potted and when planted in the benches, and next August when you go to the convention be sure and attend the meeting of the Chrysanthemum Society of America, and meet the prominent growers of the "Queen of Autumn" who will be there, and give them a little of the knowledge you have acquired and learn as much more from them.

ELIJAH A. WOOD.

West Newton, Mass.



Orchid Notes.

Sophro-Lælio Veitchi. This wonderful new bigeneric hybrid, flowering now (May 26) for the first time in the United States is another of Messrs. Veitch's marvels, and for richness in coloring easily surpasses anything hitherto introduced. It is interesting owing to its being the first hybrid raised between Sophronites and a Lælio-Cattleya, the parents being Sophronites grandiflora? × Lælio-Cattleya Schilleriana?. Sophro-Cattleya Batemanniana rosea is beautiful, of pretty shape and soft delicate rose coloring. Sophro-Cattleya Calypso has larger flower of better shape and substance and the whole flower uniformly suffused with rich rose, but Sophro-Lælio Veitchi has flowers as large as Lælia pumila with the deep rich color of Sophronites grandiflora rosea through the whole flower. I have no doubt when the plant gains strength the flowers will be correspondingly larger and the color even more intense. It is indeed a wonderful plant and worthy the name.

Lælia Latoni, another Veitchian hybrid, the result of crossing Lælia cinnabarina? with Lælia purpurata? is a plant of good habit and novel in color. The sepals and petals are intermediate in size between the parents, of a rich color partaking more after the seed parent, larger, fringed with rich purple, and the spike carries six or seven flowers.

Another hybrid which has flowered with us at this time is Lælio-Cattleya Phoebe sent to us by F. Sander & Co. and supposed to be a hybrid between Cattleya Mossiæ ♂ crossed with Lælia cinnabarina♀, thus being the reverse of Lælio-Cattleya Hippolyta. It is a handsome plant and in every way superior to Hippolyta, but it approaches very near to Latoni. The coloring of sepals and petals is much lighter orange. The plant has a good constitution and will grow and flower freely in an ordinary cattleya house, kept well up to the light with partial shade from mid-day sun.

Cattleya Philo is a remarkable hybrid, the result of a cross between Cattleya Mossiæ and the extremely rare Cattleya iricolor, and consequently the first hybrid raised from that rare species. The pollen parent has exercised a greater influence on the coloring and markings of the flower. It has a good constitution, is free flowering and throws the flowers well above the sheath, and lasts long in perfection, flowering all through the month of May. It is another of Mr. Seden's hybrids. There is another form which we have not yet flowered, called Cattleya Philo albiflora, which grows equally free and should be equally handsome.

Cattleya iricolor. This rare species is now in flower, and probably there are not more than half a dozen plants known. It was introduced about twenty years ago, and Messrs. Veitch acquired the stock and sold one plant to the late Mr. Ames, and one to the late Mrs. Morgan which finally got into Mr. Corning's collection at Albany. It carries about three blooms on a spike, flowers three to four inches across, creamy white, lip three lobed, milk white with a few purple streaks with a transverse orange band at the base, on each side of which is a purple blotch. It is a very distinct cattleya having short stems and long leaves, hanging very graceful, and the flowers last long in perfection.

North Easton, Mass. WM. ROBINSON.

Cœlogyne cristata.

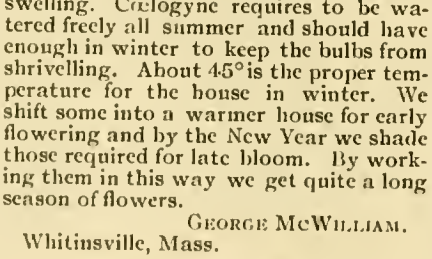
Cœlogyne cristata and its varieties alba and Chatsworth are among the best of all orchids for cut flower purposes. I know of no plant that will produce so much flower in the same amount of bench room. We grow them in fern roots and turfy loam with a little sphagnum and broken crocks mixed in, and with plenty of drainage. We start them in pots, but when they need shifting into anything as large as 8 inches or over we always use pans. The plant shown in the illustration was grown in a 15-inch pan.

They are grown in a span roofed house, on the side bench, with top and bottom ventilators open day and night all summer, excepting when cold rain storms come up. From the time the plants start into growth we shade the house until the bulbs commence to swell, which is usually about the last of August. We then wash the shading off, put up a cloth arranged so it can be drawn up or down, and by letting the sun at them gradually they get in eight or ten days so that we can take the cloth away and give them the full sun.

We give established plants weak manure water during the time the bulbs are swelling. Cœlogyne requires to be watered freely all summer and should have enough in winter to keep the bulbs from shrivelling. About 45° is the proper temperature for the house in winter. We shift some into a warmer house for early flowering and by the New Year we shade those required for late bloom. By working them in this way we get quite a long season of flowers.

GEORGE MCWILLIAM.

Whitinsville, Mass.



Carnation Notes.

In my last article I gave a few ideas about building carnation houses. After the houses are built the question comes up, how to heat them.

There has been described in the FLORIST several times a combination of flue and hot water that gives very good results, is cheaply built and easily managed. It has however, one very serious drawback, and that is the inability to properly regulate the temperature of your houses. The weather may be very cold and cloudy, so cold that you will have to fire strong as you can to keep the house warm; suddenly the sun comes out and your flue and the water in your pipes are hot and will stay hot for from three to five hours. The sun is making heat enough to keep your houses right without any artificial heat and you are left with the choice of two evils, either to open the ventilators and admit freezing cold air on the plants to reduce the temperature, or have the houses entirely too hot. With hot water you are often placed in the same position, and the better plan is to have steam and you will then have no evils to choose from. With steam in cases like the above the pipes can be shut off and the temperature kept under control without opening the ventilators.

There are boilers on the market now with which one can fit up a single house or a dozen without much trouble, and with the self regulating and self feeding arrangements attached they are as easily managed as a furnace and flue or hot water boiler. Any good steam fitter should be able to fit up your place in first class style, but it is well to have an iron clad contract with him to heat the place right and then let him get every thing fitted up several weeks at least before you want to plant the house and give the thing a good hard test, so that in case there are some things want changing you will have time to change them before you are caught with the house planted and probably want the heat.

The following system has worked very well for me and may be interesting to some of the carnation growers making changes; I do not claim it to be perfect in all details, but it answers the purpose and does it well.

The boilers are placed about two feet below the lowest return pipe; they are forty horse power with a grate surface of twenty-five square feet. This grate surface is larger than is usually allowed but it is a decided advantage in the way of economical and easy firing. They are all connected below the water level and the steam is all fed into one large receiving pipe. This plan gives an opportunity if one of the fires gets low or from any cause the steam goes down in one boiler for the others to help keep up the quantity needed for the receiving pipe and nothing suffers. They are, however, arranged with valves to run each separately if necessary. Starting from this receiving pipe are two feed pipes, one for one set of houses and the other for the remainder; this divides the place into two distinct systems.

For the three-quarter span houses which form one system (the farthest one of which is 300 feet from the boilers) we take a three inch feed pipe, running it up to the highest point at once and then giving it an incline to the farthest house of about six inches; from this feed we take seven one and one-quarter inch pipes for each house. These pipes are all given a slight incline to the opposite end of the house where they drop into a return; this return is inside of the house and is used as a heating pipe, helping to equalize the temperature at the far end of the house from the feed. Each pipe is fitted with a globe valve at the feed end and a check at the other, so they can be entirely cut off, and one pipe or the seven be used to the house. It is only very cold nights



CŒLOGYNE CRISTATA

that the seven are used to keep the temperature up to fifty and fifty-two degrees.

For the other block of houses the same system is used, the feed pipe being run at once to the end of the houses farthest from the boilers and from this feed are taken sixty-four one-inch pipes for the houses; these are run into a return at the opposite end of the houses same as in the three-quarter span.

The feed pipes and the returns are fitted with valves near the boiler, so that in case of a break anywhere it is the matter of a minute to turn the steam off and fix it up quickly. There is this one thing about steam; you should have an outfit of plumbing tools on hand and be ready any time to fix up a pipe in a hurry, as there is a liability of a break any time.

This system of piping a place with all flows and no returns may not be as good as the flow and return method, although I do not see why it should not be, and it will save according to the size of the house from one to three run of pipe, and that is an item these hard times.

ALBERT M. HERR.

Carnations in Pots.

At the meeting and exhibition of the American Carnation Society, to be held in Boston next February, there will be competition for premiums for carnation plants grown in pots. The A. C. S. at its meeting held last February at Indianapolis instructed the committee having the adoption of a schedule in charge to offer a number of premiums for pot plants, the idea being to encourage this mode of growing the carnation, and an excellent idea it is. In this part of the world apparently we can form no conception of the possibilities of this branch of carnation culture. Hitherto little or no effort has been made to cultivate the plants in pots the year round, the general practice being to select a few, or many as the case may be, at lifting time in autumn. But this plan will hardly do in the future, I think, at least for exhibition purposes.

Quite recently I read in the London *Garden* under the head of "What is a tree carnation?" that "Pride of Penshurst" always flowers most freely with age, and never seems to attain to its best till the second year. Quite a number of florists in this country have had some experience with this variety. On account of its color (a pretty shade of yellow) it was tried quite extensively on its appearance as a novelty, but was dropped almost completely after the first year's trial because it flowered only in the spring. A variety to become popular in America must be profitable. We have neither the time nor the space to devote to varieties which flower only in the spring months. The writer of the article referred to proves to his own satisfaction that Pride of Penshurst is a tree carnation, but he admits that "It is not a good winter variety, and after November does not come kindly, but for autumn and early spring it is excellent." But the most interesting statement to me is this; "I have grown the same plants of Pride of Penshurst continuously in pots for four successive years, during which time they have been repotted only twice. At the end of that time the plants are between five feet and six feet high, not lanky or drawn, but full of fresh vigorous growth." Plants the same size as those, well flowered, would certainly create a sensation if exhibited in any city of America, and if the A. C. S. may only be the means of bringing about plant growing in pots, similar to what they are doing on the "other side" much benefit to carnation culture will, I believe, be the result. And in the same article, speaking about the variety "Andalusia" it is said "That it has never given him any trouble, as it roots very readily from cuttings, and in two years grows into a grand bush five feet high." And our ancient acquaintance "La Belle," which was so extensively advertised about the years 1874-5 as suitable to the needs of this country, is said to attain to the height of 15 feet when grown in a cool conservatory. Imagine a carnation fifteen feet high. Evidently we, the florists of America, have discarded some of the old varieties too soon, before we had, as it were, given them half a trial. This section of the Dianthus Caryophyllus, according to the writer of the article, seem to require age in order to bring out their true character. The new English variety, "Uriah Pike," is also brought in to illustrate the point of the *tree* character of this section of the divine flower. A correspondent in a previous issue of the *Garden* had observed that "If dwarf it would add a good crimson." Whereupon "E. J." rejoins, "This splendid variety is, however, like all good perpetual carnations, only dwarf in youth, while old plants will reach four or five feet quite easily.

I like the vigorous style of "E. J." He is evidently a good grower of plants and knows what he is talking about, that is, of course, as regards the climate of Great Britain. He goes on to say: "I am inclined to believe, however, that much is lost by discarding these plants too early. Of course if only small dwarf plants are required it would be folly to utilize space otherwise, but if the object is cut bloom, and this in quantity, the old plants are especially valuable. Even Miss Jolliffe, when it can be induced to live, produces far finer flowers and in greater number in the second year; indeed it is not too much to say that in size they are nearly double, while the color is much heightened." If we, the florists of America, can only double the size of our flowers, heighten the color and increase the number there are lots of us who would only be too happy to be able to do so.

No plant, I believe, is so susceptible to its surroundings as the type of dianthus under consideration, and it is probable that what is so thoroughly a success in England may be an utter failure with us. However, it seems to me to be well worth while giving the plan, as adapted to the English climate, a trial here, if only in a very moderate way. E. L.

Carnations in Pots.

"E. J.," Pittsburg, Pa., says he "has some carnations lifted last fall. This spring he did not plant them out, but plunged the pots in the earth and wants to manage them so that they will be nicely in bloom by next April." This is growing them nearly or quite two years, altogether too long to be profitable. If they were good plants this spring and had not flowered all winter they should have sold well for bedding, for that kind of carnation plant is always in good demand. It would pay better now to plant them out and use the flowers this summer, and let the old plants stand the chance of living or dying next winter. They will have paid well enough. To have good salable carnation plants in April lift some medium sized plants from the field the same time you are lifting for the benches, pot them in 5-inch pots firmly and place in a well built cold frame. Leave them uncovered as long as possible, but during very cold weather double sash will pay. Bring into the houses at end of February or early in March and they will be most satisfactory either for the flower border or for pot plants. Pinch off all leading shoots in the fall when lifting. WM. SCOTT.

WE HAVE received from Mr. H. E. Goold, Sussex, N. B., a few blooms of a seedling daisy grown by him. The flowers arrived in very good condition after their long journey by mail and the variety seems quite promising.

Marketing Pæonies.

This is the season for pæonies, and thousands of blooms are received daily at the large distributing centers all over the country, but of the vast amount of stuff sent to the markets there is a very large percentage totally unfit for sale, and in many instances consignments received from a distance do not realize express charges. Nine times out of ten the trouble is either bad packing or worse judgment in cutting the bloom. Wholesale and commission men have been wrestling with this question for a number of years, and their individual efforts to educate the shipper up to the fact that it is fully as important to exercise good judgement in cutting pæony blooms as those of the rose, has borne some fruit. But there are still too many growers of these flowers who do not yet realize the importance of this matter. Many thousands of pæonies could often be sold at a very good price if they were marketed in salable condition.

The meagre returns realized from this class of stock has discouraged many growers from shipping at all, allowing the bloom to go to waste. Take for instance last Decoration Day; at that time the Chicago market was depending for its supply of pæonies on points further south, the home grown article not being in yet. Prices were up to the top notch, and growers of these flowers, say in Southern Illinois or Indiana, could have reaped a rich harvest, if they only had known how to handle their stock to advantage. The idea that seems to be prevalent is to allow the flower to fully expand, then cut it, and rush it to the market at once.

Now let us note how some of our most successfull pæony growers handle their stock. There are in our vicinity two growers in particular who have given a good deal of attention to the pæony for a number of years. The first and oldest is the Kennicott establishment at "The Grove" started many years ago by Dr. Kennicott, who in his day was noted as a very able horticulturist. The place is now managed by one of the sons, Amasa. A great deal of the stock now grown around Chicago was disseminated from this establishment. The other establishment is that of the Klehm Nurseries at Arlington Heights. We paid a visit to this latter place last week, in the first place to gather information, and in the second place to enjoy the sight of the pæony field. The information on points of interest was freely imparted by our genial hosts, father and three sons. But the visitor who expects to see a great sight of gorgeous blooms will be sorely disappointed. Although this is the height of the season, when from one to two hundred dozen flowers are cut daily, you will not find a single open flower, unless it be of some worthless variety, and few of those are tolerated. The rows are yet a sea of buds, but these are kept under as careful surveillance as an experienced rose grower would use in watching his buds. An experienced hand is kept busy all day in cutting the buds at the right stage of development. The man who cuts pæonies must have a knowledge of the habits of different varieties, and use good judgment just the same as the rose grower.

Let us take some of the leading commercial sorts, starting with the earliest varieties. The first to come is the old European species P. officianlis rubra, commonly known as "Old Red;" this sort has always been a prime favorite in the market, and is sold in large quantities, at the same time it is one of the most difficult varieties to handle, as it is a very poor keeper. The blooms of this variety, if left to expand on the plant, will scarcely keep a day, but if cut while yet in close bud will last 3 or 4 days, or even longer, in good condition, and not alone will the flowers last longer, but if kept set in a pail of water in a cool basement, the bloom will develop larger and finer than they would if allowed to mature on the plant. The pink form of this same species (officinalis carneus) is of the same habit, and should be treated the same as the former. This sort appears to be, in our locality at least, more tender than old red, the blooms too being weaker and smaller, and on that account not as profitable to grow.

In the Chinese section the early white (Whittleji) is one of the standard market sorts, and more blooms of this variety are sold than any other. The pink variety commonly known as Early Rose (fragrans) and another pink sort which goes by the name of Dunlap's Pink in our locality, come into bloom about the same time. These varieties should all be cut in quite close bud, that is just as soon as the petals begin to loosen. A little later comes "Drop White" (paschalis) the finest of all white pæonies, although a rather indifferent keeper. This variety should not be kept more than a week after being cut. If kept too long, although apparently in first-class condition, it has the disagreeable habit of suddenly collapsing.

Van Bonboch (festiva), also called Apple Blossom, a comparatively new variety, is one of the finest market sorts; this kind however should be left on the plant until partially open, as it develops but poorly if picked in too close a bud. The same holds good as regards the late variety Humeii. This latter is a very showy sort in the garden, it being one of the largest varieties in this group. As a cut flower however, it is not as satisfactory as the first named. In the first place it is a poor keeper, then it has a rather weak stem, and besides this the outside petals of the flower always have a wrinkled and withered appearance. This variety, cut nearly opened on the plant, should be marketed the next day.

One of the last is Late Rose (roseum) a remarkable keeper, and on that account of value, although the bloom is small, and in shape not very pleasing. There are several other varieties grown, such as Potsii, and the white with lemon center, which however, are not much in demand as cut flowers. At the Klehm nurseries we also find a large assortment of all the latest English varieties, few of which however seem to have much merit as profitable market sorts.

But now as regards the keeping of the flowers after they are cut. The blooms are cut with an average length of stem of about 15 inches, "old red" however not being a tall grower, can not always be had with as long a stem. From the field the flowers are taken to a convenient place for sorting, where the leaves on the lower part of the stem are stripped off. The flowers are now sorted in first and second quality, and tied in bunches of a dozen each. After that the flowers are placed in pails of water and kept in a cool cellar or refrigerator until wanted for shipment. Many of the good keeping varieties as above mentioned may be kept safely for two weeks or more in an ordinary cool basement or cellar. But if the stock is intended to be kept longer it must be placed in cold storage, in an even temperature of any 38° to 40°, where such varieties as Early White and Late Rose have been kept in good condition for 4 weeks and more. Before the flowers are sent out for shipment, or placed in cold storage each bunch should be tightly wrapped in paper and marked No. 1 or No. 2. When marketed in the bud there is little danger in crushing, and the bunches may be packed closely together in large baskets. To shippers, however, at long distances from a market we would not advise the placing of their flowers in cold storage for any length of time, as a long journey would be ruinous to stock that was kept in this way, but all flowers should be placed in water for at least 6 hours before shipment.

The accompanying illustration shows a number of blooms and buds at the stage of development at which they should be cut. In the upper right hand corner is a bud of the early white Whittleji, and at the left is one of the early rose. These two varieties are cut quite tight if intended for shipment or to keep for some time. The top center flower is the late rose, which should be cut when partly open, as shown; and below is a bloom of Humeii which is cut at about the same state of development.

Packing Plants for Shipment.

A proper method of packing plants is one of the most important matters in the management of a shipping trade, for on this, to a great extent, depends the safe delivery of an order, and the following notes from an experience of more than twenty years may possess some interest to some of those now making a beginning in this direction. It is proposed to divide this subject into two divisions or heads, namely, "Summer packing" and "Winter packing," the present article being devoted to the first division in accordance with the season, and this to be followed with some correspondingly brief notes in regard to winter methods.

The first portion of the work of packing is the tying of the growths and foliage in such a way that they will not bruise or rub together to an injurious extent after being placed in the box, but during warm weather it is not wise to cover the foliage with wrappings any more than is absolutely necessary, for when shipped to a distance the foliage so covered is very likely to become bleached and possibly heated. Among foliage plants, palms in general are the most important at the present time, and the sorts most used in the trade are quite easy to pack, though the methods used require slight modifications to suit the peculiarities of different species.

For instance, a latania in a 4, 5 or 6-inch pot can usually have all its leaves drawn up in a loose roll and secured with a narrow band of paper and a single tie of twine, the object of the band of paper being simply to prevent the twine from cutting or marking the leaves. But with a larger specimen than those mentioned above it is advisable to take the center leaf first, especially if it is just unfolding, giving it a wrapping of paper its entire length, this being done to protect it from the spines on the other leafstalks, when the latter are drawn up around it. Then follow by drawing up the leaves in succession, avoiding creasing or doubling the leaves as much as possible, and using only enough paper to protect them from cutting. This method may be used with any fan-leaved palm if carefully handled, and seldom results in any injury to the foliage. For the pinnate leaved palms, of which Areca lutescens and the kentias are good examples, much the same plan can be used with equally good results, the chief care



Early Rose. *Late Rose.* *Humeii.* *Whittleji.*

HOW TO CUT PÆONIES FOR MARKET.

being to draw the foliage up smoothly, and not too tightly during the hot months. In the case of a large areca in which the secondary growths from the base have attained considerable size, it is best to tie up the main shoot first and then to follow with the smaller shoots, thus using the central growth as a support for the weaker ones.

Pandanus and dracænas can also be drawn up in the same manner as indicated above, a single tie being sufficient for small plants at this season, but from the fact that more or less water is liable to lodge in the axils of the leaves and down in the center of both pandanus and the various dracænas it is a wise precaution to lay these plants over on their sides in the sun for a short time before tying them up, particularly if they are going a long distance, in order to dry the foliage, otherwise there is a possibility of rotting while in the box.

Ficus elastica grown on single stems should also have their leaves drawn up from the bottom, being careful to draw them up smoothly in the form of a hollow tube, not individually but as a whole. Tree shaped ficus should have the various shoots treated separately first, then draw them all together and tie around a stiff stake. It may be added that large dracænas and pandanus can be more thoroughly supported also by tying to a stake after the foliage has been tied up, but the ordinary trade palms do not require staking if the plants are well established specimens, and none other than plants answering to this description should be shipped at any time. But as an additional precaution with a tall palm, it is well to tie it to a crossbar nailed across the center of the box, in order to prevent the top from threshing around when the box is roughly handled.

Plants in flower are somewhat more risky to pack than palms, but the main point to keep in view in the summer packing of such stock is the fact that too much wrapping will surely result in the ruin of the flowers, and that all the growths should be so tied to a stake or stakes that the flowers cannot batter together. Easter lilies may be safely transported by tying securely to a stiff stake, the stake being long enough to extend an inch or two above the topmost bud, and then binding the buds and flowers in sucession quite tightly to the stake, using for the binding operation a long strip of tissue paper, and the plants may be turned out of pots and slipped into paper pots, before laying them down in a box and cleating securely to the ends of the latter. In this case also the cross bar in the center of the box is very necessary, and each plant should be securely tied to said bar, to prevent any battering of the heads.

For small lots of bedding plants there is probably no better or cheaper way of packing than to stand them up in chip baskets, but if going more than twenty-five miles I think it is safest to roll the plants in paper before placing them in the basket.

Orchids in general, *if not in bloom*, are not difficult to pack, except that many of them must be left in pots to prevent root disturbance, and this makes an extra amount of packing material necessary to obviate the breakage of pots that is otherwise inevitable. Those grown on rafts can readily be fastened to the sides of a box with a nail or two and a piece of wire, and at this season will be better without any paper covering, with the possible exception of such easily injured species as phalænopsis.

Small ferns should be turned out of pots and rolled in paper, but with the upper end of the roll open, so that the fronds can get some air, and for short distance shipments may be stood up in boxes, with only a covering of strips nailed across the box in such an open manner as to demonstrate to the most obtuse expressman the absolute necessity of keeping the package right side up. But for long distances the only safe method is to fasten the plants in the ends of the box with strips or cleats.

Those having much shipping to do find it best to buy lumber in large quantities, and to have the boxes made on the place, and in the east the most satisfactory lumber for the purpose is found in the form of Virginia pine, ½ inch thick, for sides, top and bottom, and either white pine or hemlock, 1 inch thick for ends, this combination making a stiff box without excessive weight. In some other parts of the country a cheaper substitute may be found for either of the above. For packing material there is nothing superior to excelsior, this being clean to handle, not expensive (costing about $15 per ton in small quantities, and much less in carload lots), and is not so likely to heat and decay as hay.

In placing plants in a box it should be remembered that the express companies charge extra rates on all boxes in which the plants stand above the sides of the box in such a way that other freight cannot be piled on top, and therefore all tall plants should be laid down and cleated into the ends of the box.

Provision should be made for ventilation at this season, by boring some holes in the sides of boxes with a one-inch bit, or by cutting slits in the boards, and a strip cover, with about two-inch spaces between the strips is much the best for all summer shipments. W. H. TAPLIN.

A Serious Attack of Cucumber Anthracnose.

Mr. J. F. Wilcock of Council Bluffs, Iowa, makes complaint of a serious blight of his cucumbers, of which he says he has about four acres under glass, and the plants are rapidly being killed. He says that the blight "begins generally with light brown spots on the leaves which spread and run together, and gradually including the whole leaf which withers completely as if frosted, after which the stem of the leaf becomes watery and rotten clear down to the vine." This description might apply to a number of leaf blights of the cucumber, and it is only when the specimens are examined micro-

scopically that the real cause of the trouble is determined. Upon making such an examination it was easy to demonstrate the cause of the trouble which is doing such serious injury in these large greenhouses devoted to the growth of cucumbers. When a brown portion of the leaf is examined with the high power of microscope it is easily seen that the whole surface is almost entirely covered with a fungus. This low parasite has previously sent its threads all through the substance of the leaf and then coming to the surface here and there have produced patches of spores. The epidermis of the leaf has been broken through, and over the rupture is to be seen a multitude of nearly oval bodies which are the spores of this fungus. The name of the fungus is Colletotrichum lagenarium. This fungus is by no means new among cultivated plants. It was first brought to notice in 1875 as causing a remarkable spotting of bean pods. Since that time it has been observed in many countries, and in our own United States it is one of the destructive pests of the cultivated bean. It thrives also upon the watermelon, muskmelon, pumpkins and squash, so that it has a wide range among the members of the cucumber family, and also is found as above stated upon the bean. That it is the same fungus upon all these hosts is proved by a process of innoculation from one species of host plant to another, so that there remains little doubt of the identity of this fungus. Many experiments have been carried out to discover a method of treatment that would prove satisfactory, and while the end is not yet in connection with the experiments it is safe to say that this anthracnose can be controlled in large degree by using the standard fungicides, namely the Bordeaux mixture and the ammoniacal solution carbonate of copper applied in the usual way.

There is this to be insisted upon, that fungicides act as preventives rather than cures, and in order to keep the plant in healthy condition the fungicide needs to be applied very early in the season. In fact at the present time experiments with beans are now going on under the writer's supervision, the fungicide having been applied to the bean seeds before they were planted. No experiments so far as is known have been made in a similar way with the seeds of the cucumber, and it is hoped at another season to be operated with the members of the cucumber family, namely the pumpkin, squash, melon and cucumber in the same way by first treating the seeds with the Bordeaux mixture, or some other fungicide and then determining what effect is produced. However, it goes without further saying that Mr. Wilcock should insist upon a thorough cleansing of his greenhouses. The soil which he has for the growing of his cucumbers is unfit as it now stands for further use, for a crop of this kind, and it should be either treated with some fungicide, or a healthful, fresh soil introduced into the greenhouses. In short the best of sanitary measures should be observed in connection with the growing of cucumbers where the fungus which is now ruining his crop should not be able to gain a foothold.

While it has been said before this fungus is not at all a new one and has been prevalent in New Jersey and elsewhere upon the cucumber plants grown in open culture, this is the first time that a complaint has come on so large a scale of the rapid killing off of cucumber vines under glass. If there are others who are growing cucumbers in a similar manner and are troubled in a like way the writer would be pleased if such sufferers would communicate with the undersigned and accompany such letter with specimens of the diseased plants. It is evident that heroic measures must be taken for the stamping out of this serious fungous pest. BYRON D. HALSTED.

New Brunswick, N. J.

Seasonable Hints.

The unusually long wet cold spell has been succeeded by a hot dry time, and altered entirely the conditions both outside and in. As soon as the rush of bedding out is over, which it nearly is now, you will be very anxious to look after several important plants for next year's business. There is no plant yet in commerce so useful for the center of vases or veranda boxes as Dracæna indivisa. No palm, however cheap they may be, or even how expensive they may be, will flourish in the wind and sun as it will. It is never too late to sow it, but you can hardly make a useful plant in one year. Some large growers plant them out in summer time. For a moderate quantity I prefer to grow them in pots, plunged in frames in old rotten hotbed manure and in full exposure to the sun. Pot in good stiff loam with a good allowance of rotten manure, and they will make sturdy plants.

Another plant which has further proved its value in the above kind of work, particularly in veranda boxes, to which it adds a light and feathery appearance, is Grevillea robusta. It is a tough hardy plant and when not over two feet high most graceful. If you sowed seeds of it early in the season as recommended they should now be nice little plants in 2 or 3-inch pots, even if they have been neglected. Shift them into a 4-inch when you get time. Pot firm in a good loam and keep under glass the whole year. In winter they thrive in a very cool house, which makes them serviceable for many kinds of decorations. Some of my friends will say such a common plant does not merit so many words, but they must remember it will take the place with the average florist of a fancy palm that would cost six times as much.

Don't put your Araucaria excelsa out of doors; keep them well watered in the coolest and airiest house you have and shaded. Small and medium sized palms, such as kentias, arecas and latanias, keep indoors, well shaded, with plenty of fresh air, and they will greatly grow and improve these summer months. Large growers of the above keep the fires going in the hottest months, and force them along at a "two-minute" gait, their idea being to manufacture a plant as quickly as possible. Your object is to have well grown sturdy plants that you can confidently recommend to your patrons as a palm that will thrive in their houses. You will have time now to rid them of scale and mealy bug, and can keep them well syringed and give them plenty of room. Large palms that have grown as large as you want them to be may stand out of doors. I have found no harm come to latanias, arecas or kentias stood in the broad sunlight, providing they were faithfully watered. They will fade out a little, but that will all come back when they are housed again in fall.

Lilium auratum and L. lancifolium in the several beautiful varieties (or species) will now be coming into flower. The latter are most useful, and should be grown by all retail florists. They should now be in a heavily shaded house where there is an abundance of air. They like to be cool and their flowers last so much longer. If you don't have such a house then put them out behind a shed or somewhere that is well shaded. Don't throw away old bulbs of the lancifolium lilies. They are just as good next year as you can buy, only when the stalks are cut don't neglect watering entirely, but dry them off as the dryness of their stems and leaves indicate.

If you took off or saved the little bulblets on the callas last September when you potted up the old roots and grew them along either under or on top the bench they will be now in 4-inch pots. Get at them at once, shake off a good deal of the earth and pot in 5-inch pots in soil that has at least one-fourth well rotted cow manure. Plunge out of doors; well chopped up old hotbed is the best material for that purpose. Choose a place for plunging where water won't stand, for the callas need a deluge of water. Never mind how shabby they look just now; they will make fine sturdy plants by October and flower earlier than the old bulbs. With the old bulbs you can let them rest entirely till September, then shake them out and start in entirely new soil. Callas have been rather plentiful last winter, but there will be likely a better demand next winter.

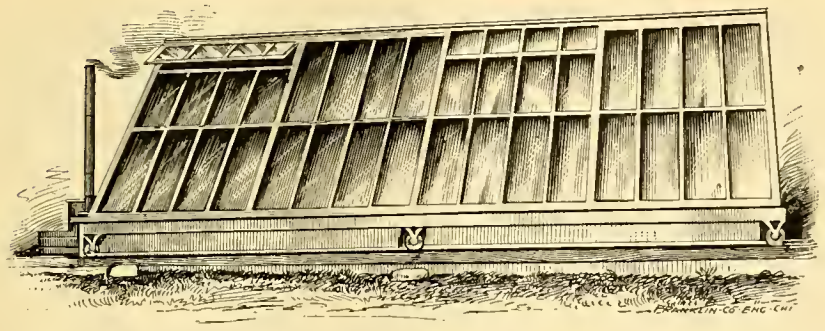
The torrid spell we are having at present will dry up things pretty badly unless you exercise your brains and muscle to some extent. You ought to be able to get all your odds and ends into one house, where a heavy shading won't hurt now, and remember a great help to the plants that are sweltering and drooping now is not only sufficient water at the roots (once a day ought to be enough for them), but they are wonderfully benefitted by a cooling down of the houses at least three times a day. By that I mean a wetting down with the hose. It's not the quantity you pour down, but the scientific way in which it's done. It's simple this time of year to learn a man to syringe a house of roses if it's all roses, but suppose it's composed of 20 different sorts of plants; then a man has to have a knowledge of them, and instinctively directs the spray to the lilies in bud or the fuchsias, but leaves the gloxinias and several others alone. It would take a chapter to fully write up the science of handling the hose, and I don't pretend to do it, but learn to do it if you want to succeed as a plant grower. It is no folly to call it and watering a true science. Did you ever succeed in watering a bench of plants in pots and attempt to hold a conversation with some one at the same time? If you succeeded I would not give you ten cents a day for your skill. WM. SCOTT.

A Travelling Greenhouse.

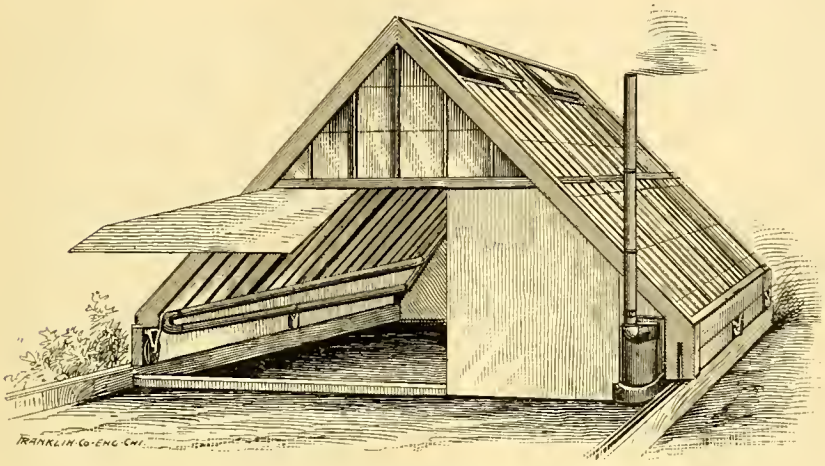
The accompanying engravings, which we have reproduced from the English *Gardening World* show a greenhouse designed by a London firm for use in bringing on early fruits, vegetables and flowers, moving it on from section to section as needed. Would such a movable house be of any value in bringing on hybrid roses, etc., in early spring?

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SIDE VIEW



END VIEW.

A TRAVELLING GREENHOUSE.

Chicago.

The supper of the Chicago Florist Club last Thursday evening was a very successful affair and was much enjoyed by the 45 or 50 members present. Mr. S. B. Parsons happened to be in the city and was a welcome guest at the supper. The two tables were lavishly decorated with flowers and plants and flowers were also freely used around the room.

With the advent of the coffee and corn cob pipes came Prof. Carnes and his wife and daughter, each of whom gave excellent recitations that were warmly applauded.

The first toast was "The advancement of ornamental horticulture," to which Mr. G. L. Grant responded as follows:

"While it is true that the progress of ornamental horticulture during the past quarter of a century has been marvelous, it is nevertheless a fact that the skilled gardener and florist have not made a corresponding advance in public esteem. In literature all gardeners are still classed with the coachman and the hostler, and as a consequence the same classification is followed by the general public with comparatively few exceptions. We must admit that there is a considerable number of self styled professionals who may be so classed, but it is an undoubted fact that to-day the great majority of the workers in the field of ornamental horticulture rank high as men of education and refinement. Probably no other profession counts among its followers so many who have entered it from pure love of the work. In no other profession will be found so many close students of the underlying principles of each detail of their daily labor. And no other profession demands from its leaders a broader knowledge or a wider culture.

"Gentlemen, if we would hasten the advance of the profession we must first take steps to place it upon its proper level in the public mind. We must bring our strong men out into the light of publicity that the world may know us for what we are. We have been seriously remiss in our duty in this respect in the past. Further, we must make a broader use of our numerous organizations. We must as carefully study to in a measure control political causes that may affect horticulture as we now do the life histories of insects injuriously affecting plants. We must exercise the power we possess, but which has heretofore been allowed to remain dormant. Had the horticulturists of the whole country exercised fully at the right time and in the right way the power they possess, the horticultural department of the World's Fair would have been what it ought to have been and not what it was. Let us profit by that lesson.

"Let us make ourselves felt in the management of our park systems. Now is the time to plan a campaign that will put men in our park boards who are to at least some extent familiar with horticultural matters. Let us exercise the power we have in securing the nomination for governor of a man who will pay heed to our suggestions when elected. We are strong enough to do it if we only work steadfastly along the right lines. Let us exert in favor of what is right and proper the same power that is now used by others in favor of what is wrong and improper. Let us take a broad view of the matter. Remember that we are not alone. Remember that among the members of our horticultural society will be found a host of men whose names carry much weight and every one of these can I am sure, be depended upon to lend a helping hand if he can see wherein it will effect good, and he will recognize the fact that strong organized effort cannot fail of effect.

"We all love our city and wish to see it beautiful and healthful. Let us take steps toward the creation of a commission which shall have power to plant and maintain shade trees on every street possible. The city of Washington has already done this, and as a result Washington is famous the world over for its beautiful trees. We can do the same here. To be sure it will take work to carry such a measure through our city council, and still more work to insure the appointment of proper men on the commission, but it can be done. We would surely have the active support of the daily press and by persistent effort all obstacles could certainly be overcome.

"If we succeed we will have exerted a far-reaching influence, for horticulturists in other cities will follow our example, and making use of our working plans will accomplish similar gratifying results. This may seem rather out of the line of work of a club of this character, but I believe we should take a very broad view of the subject. The florists of the country are better organized than any other class of horticulturists. They seem also to be harder workers in any cause they may espouse and it would seem that in order to get the matter started it should receive its initial impetus from them. After the work is under way others will give the needed assistance."

"Our Parks" was the next on the program and from Mr. J. A. Pettigrew came the following interesting response:

"In these days of high pressure living and business competition, with its consequent cares and worries, it is pleasing to note that so much thought, money, and time is given to plans for the creation and development of public parks. The benefits arising from the establishment of parks and breathing spots in crowded cities is so well understood, that neither time nor money is begrudged in carrying on the work of extending and beautifying them.

"In the city of New York during last year nearly one and one-half million of dollars was spent on its parks and boulevard system, and large additions recently made thereto will largely increase the cost for improvement and maintenance in future. The city of Brooklyn's parks cost last year about one million dollars, as did the parks of our own city. The same or nearly the same ratio of expenditure for park purposes—as compared with population—prevails in most of the large cities of the United States.

"In view of the increasing importance and magnitude of this work, it becomes more a matter for the best thought and effort of the statesman, the landscape gardener, and of the horticulturist to meet the public need. The statesmen to devise such methods for the appointing and organization of the governing powers of the parks as will place their management in the hands of men of high class, who will conserve the interests of the people, and jealously guard their trust from any intrusion of schemes likely to divert the park from its intended object or purpose, who will be beyond the reach of political jobbery, and above the suspicion of a prostitution of office for personal gain.

"The assistance of the landscape gardener should where possible be called in the selection of lands to be purchased for a park; he will note points of advantage not observable to the unpracticed eye; his experience and training will fit him to judge of location, availability, soil and natural advantages; in designing the park

he will study the nature and conditions of its use, as well as the natural features it may already possess.

"A park conveys the idea of a place for rest and retirement, where nature can be communed with. An isolation from bricks and mortar, where the street life, and office walls of the city can be forgotten; where trees, shrubs, flowers, green sward and water in harmonious arrangement, form a pleasing landscape, restful to the tired brain, refreshing it with beauty and quietude.

"Such then is the mission of the landscape gardener; to bring about this effect he must use the material he finds around him, assisting nature here, boldly creating a natural effect over yonder, while in another spot he leaves nature alone pure and simple in its beauty.

"Many parks provide for amusements of various character, often at a great sacrifice of sylvan beauty and its restful influence. The tired worker vainly trying to escape from the bustle and noise of the city is disappointed, and instead of finding rest and quiet finds himself jostled in the hurly burly and excitement of contest. In parks of large extent the designer can so arrange his plan, as to include these features without detriment to other effects, by providing for their indulgence away and isolated from sylvan creations. It is not intended here to decry against these amusements, many of which are admirable and necessary for the development of the youth of our cities, but to protest against their introduction into the parks when they mar park effects; let those seeking such amusements be accommodated when possible, but not where they will defeat the intent and purpose for which the parks are created.

"Without disparagement to works of art, it may be said that an undesirable feature in park scenery is the monument. Monuments in bronze of this or that person are being introduced in such numbers that in the not far distant future, some of our parks will more resemble depositories for the dead than places of recreation and rest for the living. Creations in bronze of the sculptors' genius, placed where natural features are produced or intended, have a destroying or neutralizing effect on the work of the landscape gardener.

"The subject of parks and their management is a very important one, and is worthy of the best thought of this club and all societies of a kindred character. The interests involved are very large, and great ignorance in horticultural matters exists among those having their control and direction, and I think it comes within the scope and power of this organization, to influence for good, existing methods of park creation and administration."

Mr. S. B. Parsons responded to a call and delivered a very effective extemporaneous address in which he spoke of flowers as the crystallized thoughts of God and their perfume His breath. He paid a glowing tribute to horticulture as a profession and spoke of the wonderful progress made since he first entered the ranks over 50 years ago.

Short addresses were also made by Messrs. J. T. Anthony, Edgar Sanders and A. McAdams.

An enjoyable feature was the vocal music by the sextette of which Messrs. Walter Kreitling, Chas. McKellar, Jos. Curran and Hubert Mann were the leading lights.

Mr. O. P. Bassett was unfortunately unable to be present in the flesh but he was there spiritually through the medium of the big bowl of punch contributed by him toward the evening's entertainment.

We are now in the midst of the school commencement season, which should by rights make things lively. There is, however, no sign of unusual activity; in fact trade is so dull as to remind one of midsummer. And not alone is the local demand extremely light, but orders for shipment have also fallen off very materially. The hot weather which was experienced last week had the effect of rushing the remainder of the rose crop on the market, which of itself was enough to swamp it, even with a fair demand, but coupled with a stagnant market prices went away down. In lots of 1,000 fair stock was sold for from $8 to $10. Quality is getting poorer every day; such a raft of mildewed stock as is now dumped on the market hasn't been seen here for many a day. Stock cut from young plants, benched early, is, however, improving. Selected stock in small lots goes at from $2 to $4, according to variety. Good Beauties still bring $2 to $2.50 a dozen.

Carnations are plentiful and prices down for common grades. There is a wide range in prices. Poor to fairly good commons sell at 25 to 75 cents, while selected, long stemmed and disbudded stock bring $2 to $2.50. Sweet peas are a bad glut at present. $1 per 1,000 is the offer, and few buyers at that. Pæonies sell fairly well this spring. Very few flowers, if in salable condition, have gone to waste. Outdoor roses are in, but are generally poor and crippled. Jacques are not nearly as good as in former years; these sell at $1 to $2 per 100.

The Cut Flower Exchange got away from 45 Lake street just in time. Late last week the building was destroyed by fire.

Lincoln Park is now simply a part of the political machine. The politicians have made almost a clean sweep, among the men removed being several who have been there 20 years. The only one occupying a position of consequence and that has escaped removal is Head-gardener Stromback.

New York.

The past week has been one of most pronounced inactivity. The relief from the condition of midsummer dullness which might reasonably be expected just now in the way of demands for graduations and similar festivities has not materialized so far. To add to the perp exity the cut of most flowers, especially roses, has been enormous, owing to the refreshing effect of the preceding period of cold, damp weather on the plants. Even the Greeks have lost heart and are disinclined to buy at any price.

There is an immense overstock of everything coming in, the only redeeming feature being the supply of white sweet peas, which is scarcely equal to the demand. Fine peas of the other varieties go slowly at one cent per dozen. At the 34th street market the space is scarcely large enough to accommodate the heaps of pæonies, larkspurs, cornflowers, coreopsis, Jacqs and other outdoor productions, and the price as a rule is "take whatever you can get."

Mr. John H. Taylor's "smoker" was a pleasant affair, limited materially in attendance and animation by the extreme sultriness of the weather, which was almost unbearable. The entertainment provided was of a high order, and the good taste displayed in all the arrangements was most creditable to Mr. Taylor and those who gave him their assistance.

Arrangements are nearly completed whereby the New York delegation to Atlantic City next August will travel with comfort and at a low rate of fare. Judging from the prevailing talk the party will be by far the largest ever representing New York at a S. A. F. convention.

Quite a number of gentlemen prominent in the trade are contemplating trans-Atlantic voyages. Winfried Rolker sails on the Lahn June 19, Chas. Thorley, on La Touraine June 23; Thos. Young, Jr., on the Havre June 26, and I. Forsterman, on the Oppdam, July 5. Mr. W. A. Stiles of *Garden and Forest* has just returned from a visit to England and is highly pleased over the kind reception which he met there.

The second auction sale of orchids by F. Sander & Co. on Friday, June 15, was very satisfactory, prices and demand being fully up to expectations. In the audience were: Mr. Wm. Griffin of Lenox, Mass., and Mr. R. M. Grey of Orange, N. J., and other orchid fanciers were represented by substantial mail orders.

Wm. Elliott tells of a recent visit to Boston in company with a select team of veterans in bowling on the green. They were received with due consideration by the Bostonians, who treated them with unbounded hospitality and then thrashed them unmercifully in the bowling contest.

Mr. W. H. Siebrecht states that he has given the new rose, Belle Siebrecht, a thorough trial outdoors the past winter, and the plants proved perfectly hardy and are now flowering in profusion.

Philadelphia.

The past week about wound up the school commencements and weddings, and while there are still to be a few more of the latter between now and the first of July the demand for flowers from this source may be considered about over for the season.

There are still plenty of flowers and really good ones for this time of year. The Kaiserin is doing very well and the Bride is still in very good shape; Mermets are also good. The outside roses have been fine this season. Mr. Heacock has had a fine crop of Jacqs, good flowers with stems about a foot long, each carrying an unlimited quantity of thorns. Mr. Lonsdale is sending in a fine lot of Brunners as good as many growers had them in winter; most of them were cut from plants imported last fall and planted outside. The Jacqs sold for $4 per hundred and the Brunners for $8. Other roses are about the same as last week. There is one point to be noted about the Kaiserin, and that is its freedom from mildew. A few weeks ago almost all kinds of roses were badly mildewed, while the Kaiserin was entirely free.

Sweet peas have been plenty and of good quality; they have sold very well at from 50 cents to $1 per hundred, quality and quantity ruling the price. Hostetter of Manheim, De Witt of Bristol, and Ed. Swayne of Kennett, are large growers of these flowers. R. L. Longcope of Holmesburg has a large lot planted outside for the summer trade, of which he makes a specialty. O. B. M. Felton of 63rd and Vine has an old fashioned garden patch, pansies, forget-me-nots, Scotch and mule pinks, sweet william, digitalis, cornflower, etc., are his specialties, his main specialty, however, is to please his customers, and O. B. M. will go to any trouble to effect this end.

Cornflower is now the correct thing for the boutonniere, and quite a good deal of it is used up in this way.

W. K. Harris is to have another sale at

Aug. Rolker's auction rooms on Friday, June 22.

Robert Craig has bought out a half interest in Col. Bonnaffon's patent iron fence; this is one of the cheapest and at the same time most durable fences on the market. It is being largely used in parks and ornamental grounds.

Mr. Connor of Lansdowne is erecting two houses 110x16 which will be planted with roses. K.

Boston.

Rhododendrons have been at their height during the past week, and the many places in this vicinity where they are extensively planted have been constantly crowded with admiring visitors in numbers greater apparently than ever before. The annual visit of the committees of the Horticultural Society and friends to the Hayes estate at Lexington occurred on Tuesday, June 12. This is one of the great events of the season, and is always looked forward to with high anticipations by those fortunate enough to receive an invitation. A pleasant feature on this occasion was the company of Messrs. Thomas B. and Franklin Meehan of Philadelphia, who were returning home from the Nurserymen's Convention at Niagara Falls and took the opportunity to pay Boston a short visit. Mr. T. McCarthy of Swan Point Cemetery, Providence, also was one of the party. Mr. Comley, the hospitable custodian of the Hayes estate, is a thorough believer in good eating, a fact of which his own substantial girth is a practical demonstration, hence this part of the entertainment received first attention. After thus putting his company in the proper frame of mind to fully enjoy the show Mr. Comley conducted them over the vast estate, through the fine plantations of conifers and other ornamental trees and shrubs, and finally to the great tent under which is grouped the superb collection of half hardy and tender rhododendrons for which this place is famous. They are better if anything this year than ever before, but few of them showing signs of injury from the sudden cold weather of April, to which many of them were exposed. The outdoor rhododendrons were found to be in equally fine form.

An equally agreeable occasion of the past week transpired on Thursday at the pretty home of Mrs. E. M. Gill at Medford, that lady having extended an invitation to the habitues of Horticultural Hall and their ladies to the number of about thirty five, to visit her at this time and thus assist in duly commemorating the naming of a new primrose which Mr. Hatfield has thought worthy to bear Mrs. Gill's name. The occasion was a most enjoyable one. One of the pleasantest features of the program was a drive through the most attractive sections of Medford. The old town looked its prettiest in its June dress.

Benjamin D. Hill, who died recently at his home in Peabody, has been a familiar figure about the flower stores and the exhibitions at Horticultural Hall for nearly a quarter of a century, and will be greatly missed. While not giving his whole time and attention to the florist business yet he has always done quite a little trade in that line in Peabody and Salem, and was evidently very fond of any work that brought him in contact with flowers. He had a habit of carrying a red carnation in his mouth, and was seldom seen without it. He had a most agreeable and kindly disposition, and made many friends by his readiness to do a favor at all times, even when at considerable inconvenience to himself.

The philadelphuses at the Arnold Arboretum are most gorgeous at present. The collection of this genus is very extensive. Syringa Amurensis, which blooms between S. vulgaris and S. Pekinensis, is now in flower and is one of the most fragrant of all the lilacs. Mr. Dawson's pets, the hybrid multiflora roses, show improvements every year. Among a lot of seedlings two years old which are beginning to bloom there are a number of exceedingly graceful and prettily colored sorts. The original Dawson rose covers a large trellis and is a perfect mass of flowers.

Out at Mr. John L. Gardner's Mr. Atkinson has had his usual success with the ericas. On looking at this beautiful collection one cannot help wondering why the heaths are not more generally grown in this country. But not everyone can make them grow as Mr. Atkinson does.

Mr. Wm. Robinson has been quite sick with tonsilitis, but is now recovering.

In town: Mr. W. A. Stiles of *Garden and Forest*, New York; Alfred Dimmock of F. Sander & Co., London; and D. McRorie, representing, W. A. Manda, South Orange, N. J.

Baltimore.

Planting out is over at last and the men who have been engaged in dodging showers, and replacing plants killed by cold during the past five or six weeks have a chance to breathe a sigh of relief and look over the field. Prices have been low. Not really so low as might have been expected, but still low enough to cause complaint, of which there seems always a sufficiency. The trend of prices seems always toward the cost of production, and there are generally enough producers about to keep the downward tendency going. Who is to blame? If a man has a heavy stock of valley at Easter and sells it at fifty cents a dozen in order to dispose of it and attract custom, as was done here two seasons ago, whose business is it but his? If another has a heavy stock of alternanthera and chooses to sell at twenty dollars a thousand rather than throw it away, what is to be done about it? This occurred last year.

A curious feature of this price cutting is that no one seems to resent it more bitterly than the man who does a little himself occasionally. Years ago when the writer was trying to sell a bill of plants, the customer said to him "Your prices are much too high, and to prove it I will show you a written offer from a florist to supply the same stuff." The offer was produced and proved to be from a member of the trade who had always advocated high prices. The effect upon the reader was discouraging, as far as upholding prices was concerned. In fact the only time when it is safe and good policy to charge high prices, is when one has a very superior article, and when no one else has it in very great quantity. While on this subject, has anyone ever seen a retailer who advocated high prices, who was unwilling to pay as little as possible for what he bought?

The weather is still unseasonably cool in the main, and the few warm days generally end in a thunder shower and cool night. Geraniums are growing nicely, but most bedding stuff is not much more than holding its own.

The cut flower market is rapidly settling down to the mid-summer stagnation, with everything but white roses in super-abundance. Funeral work is, and will probably continue for some time to come, the only steady source of income. Complaints about spring trade are general, but it seems hard to get actual figures to show just the percentage of falling off. In fact there are but a few of the trade who keep their accounts in such a form as to show the state of their business at any time, and comparison of seasons is largely guess work. MACK.

St. Louis.

The regular club meeting was held on the 14th, and was better attended than any for some time. The paper prepared and read by Mr. Witten of the Missouri Botanical Garden on "The hardiness of plants as affected by their exposure" was listened to with deep interest, and commended by all present, many of whom related curious incidents of plants' behavior brought about solely by different exposures and planting. It was the universal impression that most all the serious damage done to trees and shrubbery was owing in this climate to the southern exposure in the early spring, our hot sun first starting the sap to flowing, and then the cold freezes them up solid, killing the inner layer of bark, which is necessary for the plant's existance. A vote of thanks was tendered Mr. Witten for his able paper, and Mr. Koenig was requested to prepare and read one at the next meeting on herbaceous plants.

A committee of three was appointed to make arrangements with the railroads, looking towards attending the convention.

The committee having in charge the flower show reported what progress had been made and presented the usual "guarantee fund" for signatures; this guarantee fund is to be called upon only after the treasury of the club shall have become exhausted. A special meeting was held immediately after the regular meeting, and a committee of three appointed to examine and report upon the various places suitable for the holding of a picnic by the club members.

Mr. H. Pechman, late of the Pechman Floral Co., who has retired from the retail trade, was presented by his late associates with a bouquet of roses, tied with a bow of ribbon, upon which was lettered, "Rest at last." The stock used was as choice as could be had, after the wholesalers had cleaned up in the morning, and no doubt was fully appreciated by Mr. Pechman, who we understand adorned his desk with the tribute.

Late advices from Edwardsville, Ill., reports a heavy hail storm in that section; the hail was not fierce, but a steady downpour, which caused the stones to cover the surface to the depth of two inches. Outside stock, and especially sweet peas were ruined, while some damage was also done to glass.

The wholesale firm of S. Mount & Co. has dissolved partnership, S. Mount continuing the business. R. F. T.

Toronto.

The event of the past week was the annual convention of the Seed Trade Association. The delegates attending appear to have spent a most enjoyable time, banqueting, lunching, driving round town, sailing on the lake, etc. etc. Some very good papers have been read at the meetings, but the city dailies being so taken up with politics just now have not

found it convenient to furnish very full reports of them. Mr. S. E. Briggs of the Steele, Briggs, Marcon Seed Co. was elected as one of the vice presidents.

The weather has at last taken a turn and "de fremoniter 's gone up mor'n a foot"; in consequence the plant trade has been pretty lively, but oh! what a cutting and slashing of prices there has been. The fact is this plant business is altogether overdone in this city, and it would be better all round if a dozen or two were to drop out of it and grow cabbages and such like. But every one seems to be waiting for the other man to drop out. The last of the bedding out will probably be done this week, which is from ten days to a fortnight later than usual.

Gardeners and florists are beginning to pay more attention to their chrysanthemums now that the busy season is passing away. The interest in the coming show does not show any decline as yet, and the prospects are good. E.

Cincinnati.

The first of the week found a party of florists, consisting of E. S. Johnston, Geo. Meyers, Otto Walke, and a stranger seated with Will Murphy in his carriage making for his country home. Arriving at the foot of the Price Hill incline we were soon hoisted to the top, from which we wound our way around the straight roads, and after having many narrow escapes in the hills and hollows, we brought up at Mr. Murphy's home about 1 p. m., Mr. M's. best half had prepared a sumptuous dinner, and from the way said dinner disappeared the boys were certainly hungry, and did justice to same. After dinner the usual games were indulged in and at a late hour we were again headed for Cincinnati, believing it was the pleasantest day we ever spent in our lives. We find in looking over Mr. Murphy's place that he is something of a horticulturist, as well as the largest carnation grower around our city. His farm contains twenty acres, two acres of which is planted in grapes, the same amount in peaches, pears, apples, and small fruits, and everything in the very best of condition. He has 25,000 carnations planted in the field and looking splendid. His greenhouses, eleven in number, contain 8,000 feet of glass; of this 7,000 feet is used for carnations, and from September 1, 1893 to June 1, 1894, he had cut 203,000 blooms, at an average price of 1 cent each. His mode of heating is hot water under pressure.

Business has been a little slow during the past week, and with the exception of funeral work the stores have been very quiet.

On June 11, Chas. I. Jones, Jr., of Walnut Hills, made an assignment to W. Rendigs; liabilities about $3,000, assets $1,200. This failure was rather unexpected, as Charles was supposed to be doing a good business, but dull times and slow collections are the principal reasons.

The firm of Huntsman & Hardesty has been dissolved by mutual consent. Mr. Hardesty will continue at the old stand; Mr. Huntsman will devote his time to the greenhouses, of which he is manager. They are situated in the Highlands of Kentucky, overlooking the Ohio River; the scenery from this point is the grandest in this section. We sincerely hope and wish both of these gentlemen success.

As business is slow one of our enterprising Vine street florists has placed two penny-in-the-slot machines near his door. One contains root beer, the other orange cider. He tells me the machines more than pay the rent of his store.

Harry B. McCullough has just returned from Toronto, where he attended the seedsmen's convention. He reports a good meeting and a splendid time.

The commission houses are now receiving some splendid lily of the valley and good carnations; plenty of roses, but the quality not so good.

Our visitors during the week are as follows: Walter Bertermann, Indianapolis, Ind.; C. Betscher, Canal Dover, O.; Karl Brown, with A. W. Livingston's Son, Columbus, Ohio.; John Barclay, with John Gardiner & Co., Philadelphia, and the genial all round good fellow Harry Balsley of Detroit. These gentlemen were all feeling good, and we trust enjoyed this visit with us. We are always glad to see our friends. G.

St. Paul, Minn.

The torrid wave of the past week had the effect of shortening the rose cut as well as deteriorating the quality. Brides, Mermets, Cusin, Watteville, Perle, Niphetos and Bennetts all succumbed and are of inferior quality; La France, Testout, Kaiserin, Albany and Meteor, however, withstood the severe heat and are producing fine blooms.

The demand has been fairly good though not up to the previous week. A great many outside roses are now in bloom and this of course hurts the sales of teas. Prices are firm at $1 per dozen at retail. Baskets and bouquets have been in demand for the "sweet girl" graduates, and altogether the week's sales have been encouraging.

In the plant line, bedding out is completed and but few sales are noted. Florists are planting out what is left endeavoring to make their own grounds attractive. They are a good deal like the farmer, who sold everything he could and ate what he couldn't sell. Perhaps, however, therein lies the key to success. At any rate we have yet to hear of a florist who would lose a sale of any size in order to beautify his own grounds.

Owing to the intense heat and great drought, the beds and vases throughout the city are not looking as well as they otherwise would. No amount of sprinkling seems to take the place of a good rain.

E. F. Lemke has cleaned out two of his rose houses preparatory to planting new ones. This would indicate that early planting is finding favor with him.

L. L. May & Co. have one house already planted and another one ready to plant. This latter house, a short span to the south, is undergoing a rearrangement of benches. The aisles will be placed on the sides with a single wide bench in the middle, thus giving the plants the full benefit of the sun's rays. In the old arrangement the south bench was shaded somewhat by the gutter.

Quite a good many plants are still seen on the market but are inferior in quality, and sell very slowly. A great many roses throughout the city are now in bloom. In fact your scribe was not aware of the existence of so many until they commenced blooming. One of the finest private collections in the city, is that of A. H. Wilder on Summit Ave. Groups of Hybrid Perpetuals and Standards, all in full bloom, of rich and varied hues, shed their rich perfume on the evening breeze, and give additional beauty to the already lovely avenue.

Our florists may not be alive to the fact but it is nevertheless true that many hardy roses and shrubs thrive here, and their extensive propagation right here in our midst offers a remunerative field to the grower.

Pæonias and syringas are now in full bloom. Clematis are also occasionally seen, while over all is thrown the rich mantle of green afforded by the Virginia creeper.

A peep into the leading growers' houses show a fine and thrifty lot of "mums" being grown for another seasons' trade. Now is the time to get together, boys, talk over plans and arrange for a grand exhibition next fall. We have the material, all that is lacking now for a successful show is unity and organization. Will we have it? FELIX.

Buffalo.

Much to the relief of everybody the weather turned, and as it could only turn one way we have had a real warm spell.

The last meeting of our club was held at the house of Prof. J. C. Cowell. There was not a large attendance, but a long way over a quorum, and three new members were elected. After the routine business was disposed of the paper promised by D. B. Long was looked for, but as Mr. Long and his paper were both absent we had to call on someone else. It was almost fortunate that D. B. L. was absent, much as his paper would have been appreciated, for we had a most enjoyable treat in the shape of a long letter from M. Guilland of France. The letter was written to Mr. Cowell, who kindly translated it. Mr. C.'s translation of Mr. G.'s French was enjoyed by all present. If it had been Portuguese or Polynesian the same ability would have been exercised with the same facility. The chief points of the letter were the tracing of the different species of cannas from their early known history up to the present date. The writer, whoever he may be was extremely sorry (at least he said so) for his inability to see the professor personally, explaining as the reason that he had in his trip round the world taken another course, and returned via the Suez Canal, and not as he intended, by the Erie Canal. What a mistake!

Since the warm weather has set in flowers have been plentiful. Those who properly attended to their carnation houses are now picking large quantities. Mr. Constantine, who has two houses, each 100x20, picks about 5,000 every day. Nearly all roses are showing a little mildew, but the average is better than in former years. There has been a few good society events lately, that have cheered up several of the craft. Speaking of carnations one of the carnation growers of Corfu picked a Portia to bring into town, he wound it round the inside of his hat. It went three times round and left 9 inches of stem, and the flower for a pigtail; by actual measurement it was 34 inches and stood up as stiff as the Democratic principles of David B. Hill. American Beauties are in town in great abundance, and of first quality; reason for this later.

W. S.

OBITUARY.

LOUIS GUERINEAU.

We regret to have to chronicle the death of Louis Guerineau of Cambridge, Mass., and later of Northampton, Mass., where he was engaged in the creation of a Botanical Garden for the use of Smith College there.

Louis Guerineau came from Chartres, France, to this country some twenty years ago, and was widely known by the

gardening fraternity in Boston and New York, as an intense lover of gardening and botany, and a most thorough horticulturist in every department. Having travelled extensively and practiced his art in every part of France, Belgium and England, he was considered a living encyclopedia of horticulture, and always ready to impart that knowledge, if of any benefit to a brother florist, as he was of a very genial and obliging disposition. Being also very modest and unassuming in his manners, he did not, perhaps, cultivate as large a circle of acquaintances as his merits would command, but was perhaps so much more thought of for it.

Some of the most pleasant hours of the writer have been spent in his society, and we must admit that, if older than he (Mr. Guerineau was 54 years old) we have often derived great benefit from these interested discussions on gardening.

Mr. Guerineau succeeded me in taking charge of the Botanic Gardens in Cambridge, and I believe that our worthy secretary, W. J. Stewart, received there with him his first rudiments in gardening. A remarkable fact in connection with Mr. Guerineau, is that all his ancestors, for 250 years back, from father to son, were gardeners.

Of late years Mr. Guerineau has been affected by mental depression, from a highly nervous temperament, it brought out insomnia, and was the cause of his untimely end.

He leaves a wife, two daughters and one son, the whole family in easy circumstances. He was a member of the Society of American Florists and also of the Florists' Club of Boston. D. Z.

News Notes.

BINGHAMTON, N. Y.—A new greenhouse 22x200 feet is being erected on the hospital grounds.

MADISON, WIS.—The summer meeting of the Wisconsin State Hort. Society will be held in this city June 21 and 22.

OWOSSO, MICH.—Mr. J. S. Schleider, the florist, has purchased three acres of land outside the city limits upon which he intends to build a range of greenhouses, his present quarters being too small and allowing no room for extension.

OGDEN, UTAH.—A. A. Gibbons Co., of 1257 24th street, will add a new house 20x75, to be devoted mainly to roses and a cross-section 25x25 for orchids, palms and ferns. The plant will then contain 3525 feet of glass. All heated by hot water.

MANCHESTER, N. H.—The first annual exhibition of the New Hampshire Horticultural Society will be held in this city some time in October, the exact date and other details being left to the executive committee. The society now has a membership of sixty.

BATAVIA, N. Y.—Mr. George Munick has purchased the greenhouses and business formerly conducted by Mr. Rudolph Grob on West Main street, He will add a few more houses and arrange to run the business on a larger scale. Mr. Munick took possession June 1.

STILLWATER, MINN.—Frank Berry will this summer build a new rose house 20x100 in best modern style, and will also enlarge and rebuild his present houses, adding a new front and a conservatory for decorative plants. He will also soon open a down town store.

ALBANY, N. Y.—The florists and other merchants on North Pearl street are making strenuous efforts to have the street vendors removed from the public thoroughfares. The mayor and the police commission have been repeatedly appealed to, but without result as yet.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By German florist in general greenhouse work; 11 years' experience. A. N., 730 Maplewood Ave., Chicago.

SITUATION WANTED—By young man, single, 6 years' experience in garden, sober; can milk; good references. Address 7 Center St., St. Albans, Vt.

SITUATION WANTED—In store or commercial place; have had experience in growing roses, carnations and general florist stock. Also a good designer. Good references. Address FRANK ZECH, Sherman St., New London, Conn.

SITUATION WANTED—J. Kirkwood is open to engage with any lady or gentleman, as gardener. 25 years' experience in the growing of vines, peaches, orchids, stove and greenhouse plants, etc. Apply J. BENNETT, 2392 St. Catherine St., Montreal, Can.

SITUATION WANTED—Orchid grower; special for orchids; 10 years' experience in several of the most important nurseries in Holland, France and Belgium; 25 years old, Dutch nationality and best references. Apply to H. H. VOORNEVELD, South Framingham, Mass.

SITUATION WANTED—By a young man, single, age 20, as assistant in greenhouse or in a large vegetable or fruit growing establishmen: graduate of Vt. Agr. College. Three years' experience in greenhouse work previous to entering college. Open for engagement July 1st. Good references. Address WM. STUART, Exp. Farm, Burlington, Vt.

WANTED—A good second-hand hot water boiler and 1500 feet of 4-inch pipe. I. L. PILLSBURY, Macomb, Ill.

WANTED—Sober, reliable man, experienced in rose growing, also capable of taking charge. Address GEORGE ANDERSON, 5230 Woodland Ave., Phila.

WANTED—A partner with a capital stock of $800 to $1000; or a competent man to take charge of a greenhouse. HENRY W. ASH, West Union, Iowa.

WANTED—Greenhouse assistant; young man, some experience, good habits. State wages with board. Commercial place. Address GEO. S. BELDING, Middletown, N. Y.

WANTED TO RENT—A small florists establishment, 6,000 to 8,000 feet of glass, in good location for business. Eastern States preferred. Address FLORIST, P. O. Box 373, Portsmouth, N. H.

WANTED—Working foreman, married or single, to take charge of men, grow chrysanthemums, carnations, violets, palms, etc., etc. Good wages to a good grower. Send references and where last worked. C. W. REIMERS, Louisville, Ky.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man. WILFRED A. BROTHERTON, Rochester, Mich.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about $75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—2 large Bay Trees, round heads, 7 feet broad, 12 to 14 feet high. Shown at World's Fair. VAUGHAN'S SEED STORE, Chicago.

FOR SALE—1000 feet of 4-inch cast iron pipe and fittings, as good as new. MRS. GEO. WALDBAUER, Saginaw Mich.

FOR SALE—Hitchings patent portable return flue boiler No. 17; used two seasons; warranted perfect and all right. W. A. LEE, Burlington, Vt.

FOR SALE—Good florist business, good location; will sell at reasonable price, 3 doors west of Halsted St. P. M. SCHWARTZ, 202 W. 12th St., Chicago.

FOR SALE—Greenhouses, hotbeds and fixtures, in thriving Kansas town; good retail business. Will assist purchaser until acquainted. Address KANSAS, care American Florist.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE—$150 takes 3 year lease of three greenhouses, stock, fixtures, horse and wagon. Almost in center of Chicago. Must sell; have other business. Address 132 Wilmot Ave., Chicago.

FOR RENT—A first-class commercial place in suburb of Chicago, containing 15,000 square feet of glass, well stocked with best varieties of forcing roses. Address RENTER, care Olsen & Hughes, 66 Wabash Ave., Chicago.

FOR SALE—Five greenhouses, stock of plants, tools and hotbed sash; good retail trade; about 20 years established. Will lease ground for term of years; good opportunity for right party. Address E. MCNALLY, Anchorage, Ky.

FOR SALE—The stock and good will of a paying florist business in a thriving Maryland town. Location exceptionally good. Rare chance for a good man with a small amount of capital. For particulars address HEBARD, care American Florist.

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100 Euphorbia Jacquiniæflora.

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Smilax plants, 2-inch pots, fine plants, per 1000, $12.50	$1.50
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Heliotropes, strong, 3½-inch pots	4.00
Moon Vines, strong pot plants	3.50
Plumbagoes, extra large bushy plants, 2½ to 3 feet, $3.00 per doz.	
Fuchsias, extra large, in bloom	10.00
Ampelopsis Veitchii, 3-inch pots	4 00
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Herr's Pansies are THE Pansies. See adv. later on.

GERANIUMS. . . .

5,000 well budded, 4-inch pots, fine plants for bedding.

MIXED $ 8.00 per 100
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From 2½-in. pots, @ $3 per 100.

STRONG SMILAX, from 2½-inch pots, $3.00 per 100; $25.00 per 1000.

PANSIES, from cold frame, $15.00 per 1000.

Address J. G. BURROW, Fishkill, N. Y.

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Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remembe it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Prevention of Bench Boards Rotting.

An inquiry comes from Erie, Pa., on the above, which was referred to me. I have used common whitewash, crude petroleum, and also water lime (hydraulic cement), and of the three I much prefer the latter. The matter of cost should not be considered, because it is a trifle anyway. In my experience the crude oil seems to soon evaporate, and the same can be said about the whitewash. After the soil or sand has been on the bench a few months, or at least one year, all trace of the whitewash is gone. I have *proved* that a heavy coat of water lime on the boards, put on when they are new (and that's the only time that anything will do good) will prolong the life of the boards to double the time they would last without it. I use the cement pure, and add only water enough so that it can be spread on the boards and thoroughly rubbed in with an old whitewash brush. The particles of the cement will go into the rough surface of the boards, filling it up, and preventing the water soaking the boards, and that's all there is of it. An inch board of hemlock or pine, under ordinary greenhouse treatment, will last about four years. With a good coat of water lime it will go eight or nine. I don't believe in 1-inch boards for a rose or carnation bench, only 2-inch plank should be used. They will not only last more than twice as long as an inch board, but you will be saved that great nuisance of tearing out the old bench.

About tar on greenhouse posts; I have had no experience with tar on posts except on fences, and I never saw any benefit that the tar did. On greenhouse posts the tar would have to be entirely used under ground, for the faintest smell of tar is dangerous inside the house. There is no need of using it. WM. SCOTT.

GLEN BURNIE.—Had you sent us your name and address we would have answered by mail. We cannot print answers unless the subject is of general interest.

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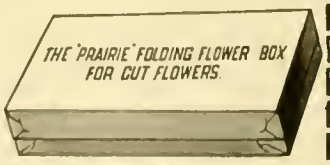
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ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.



Hardy Cut Ferns,
BOUQUET GREEN,
Laurel and Green Festooning, Wreaths, Etc.
SPHAGNUM MOSS IN ANY QUANTITY.
H. E. HARTFORD, 18 Chapman Place, BOSTON.

"Let Independence be our boast
Ever heedless of its cost."

The independence shown by the people of the U. S. on
•—JULY 4—•
is not on a par with the independence of the florist who uses
Long's Florists' Photographs
IN HIS BUSINESS,
compared with the man who doesn't. For further particulars ask
DAN'L B. LONG, *Publisher,*
. . . BUFFALO, N. Y.



FOLDING PAPER BOXES for CUT Flowers.
Made from heavy, Manilla lined, Strawboard. Shipped flat, packed 100 in a crate.
CHICAGO FOLDING BOX CO.,
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CUT SMILAX.
No. 1 Strings, 7 to 8 feet, 20 cents. Satisfaction guaranteed.
EVENDEN BROS., Williamsport, Pa.

CUT SMILAX.
15 cents per String.
JOSEPH E. BONSALL, 308 Garfield Ave., Salem, O.

GEORGE A. SUTHERLAND,
SUCCESSOR TO
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CUT FLOWERS
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WHOLESALE.
67 Bromfield St., BOSTON, MASS.
New England Agent for the GREAT ANTIPEST.

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WHOLESALE GROWERS OF
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SHIPPING ORDERS CAREFULLY ATTENDED TO.
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34 & 36 RANDOLPH STREET,

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WHOLESALE CUT FLOWERS,

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WIRE WORK A SPECIALTY.

25 per cent. disconnt on all CASH orders of $5.00 and upwards.

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SEEDS, BULBS AND ALL FLORISTS' SUPPLIES.

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Roses, Carnations and Violets Specialties.

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METS,
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CARNATIONS,
ALWAYS ON HAND.

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FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to

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Cut Flowers.

NEW YORK, June 16.	
Roses, ordinary varieties	1.00@ 4.00
" same (per thousand)	10.00@15.00
" Beauty,	3.00@20.00
Carnations	1 00@ 2.00
Harrisii	8.00@10.00
Valley	2.00@ 4.00
Callas	6.00
Sweet peas	.50@ .75
Mignonette	1.00@ 2.00
Marguerites	.25@ .50
Smilax	6.00@10.00
Asparagus	50.00
Adiantum	1.00
BOSTON, June 16.	
Roses, Niphetos, Gontier	2.00@ 3.00
" Perle, Sunset	2.00@ 4.00
" Bride, Mermet	2.00@ 5.00
" Jacqs, Brunner	5.00@15.00
Carnations	1.50@ 2.00
Harrisii	8.00@10.00
Lily of the valley	4.00@ 5 00
Mignonette, Marguerites	1.00
Stock, astilbe	2.00@ 3.00
Sweet peas	.50@ 1.00
Adiantum	1.00
Smilax	12.00@15.00
Asparagus	50.00
PHILADELPHIA, June 16.	
Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watteville, Hoste	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 4.00
" Kaiserin, Bridesmaid, Testout	4.00@ 5.00
" Belle, Beauty	10.00@25.00
" Jacqs, outside	4.00
" Brunners	8.00
Carnations, fancy	1.50@ 2.00
" good ordinary	.75@ 1.25
Valley	4.00
Asparagus	50.00@75.00
Harrisii lilies	6.00@ 8.00
Sweet peas	.50@ 1.00
Cornflower	.50@ .75
Cattleyas	40.00
Orchids	15.00@40.00
Smilax	12.00@15.00
CHICAGO, June 19.	
Roses, La France, Bride, Mermet, Wootton	2.00@ 4.00
" Meteor, Bridesmaid	2 00@ 4.00
" Perle, Gontier, Niphetos	1.00@ 2.00
" Beauty	16.00@20.00
Carnations, long	.50@ .75
" fancies	2.00@ 3.00
Longiflorum	8.00
Peonies	3.00@ 4.00
Sweet peas	.10
Gardenia	1.00@ 2.00
Smilax	15.00@18.00
Adiantum	1.00@ 1.24
CINCINNATI, June 18.	
Roses, Beauty	10.00@15 00
" Mermet, Bride	3.00@ 4.00
" Niphetos	4.00
" Perle	2 00@ 3.00
Carnations	1.00
Alyssum	.15
Sweet peas	.50@ 1.00
Valley	2.00@ 3.00
Smilax	15.00
Adiantum	1.00
Asparagus	50.00
ST. LOUIS, June 18.	
Roses, Perles, Niphetos, Wootton	2.00@ 3.00
" Bride, Mermet, Bridesmaids	2.00@ 4.00
" Meteors	3.00@ 5.00
" La France, Albany, Hoste	2.00@ 4.00
" Beauty	5.00@15.00
Sweet peas	.15@ .25
Coreopsis	.25@ .50
Carnations, long	1.00
" short	.50
Adiantum	1.25
Smilax	15.00
Ferns, common, per 1000	$1.25
BUFFALO, June 18.	
Roses, Beauties	10.00@15.00
" Mermet, Bride	3.00@ 5.00
" Meteor	3.00@ 4.00
" Gontier, Perle, Hoste	3.00
" Cusin	3.00
Carnations, long	1.00@ 1.50
" Daybreak, Wm. Scott	1.50@ 2.00
" short	.50@ 1.00
Valley	3.00
Sweet peas	50
Peonies	2.00@ 3.00
Smilax	15.00@20.00
Adiantum	1.25
Asparagus	50.00

THE DIRECTORY

For 1894

IS NOW READY.

PRICE $2.00.

American Florist Co.,

DRAWER 164. CHICAGO.

BURNS & RAYNOR'S

SPECIALTIES:

American Beauty,
Bride,
Bridesmaid,
Meteor,
Sweet Peas.

BURNS & RAYNOR,

49 West 28th St., NEW YORK.

THOS. YOUNG, Jr.,

Wholesale Florist.

DESIRABLE STOCK FOR

Weddings,
School Graduations
and Commencements.

The product of the most extensive and successful growers for the New York market.

THOS. YOUNG, Jr.,

20 West 24th St., NEW YORK.

WALTER F. SHERIDAN,

WHOLESALE

FLORIST,

32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

Edward C. Horan,

34 W. 29th Street, NEW YORK,

WHOLESALE • FLORIST.

Careful Shipping to all parts of the country. Price list on application.

FRANK D. HUNTER,

WHOLESALE DEALER IN

CUT • FLOWERS,

57 W. 30th St., NEW YORK.

MILLANG BROS.,

Wholesale Florists,

408 East 34th Street,

Cut Flower Exchange. NEW YORK.

THEO. ROEHRS,

WHOLESALE

FLORIST,

111 WEST 30TH STREET,
NEW YORK CITY

Established 1879.

WELCH BROS.,

Wholesale Florists,

NO. 2 BEACON STREET,

Near Tremont St., **BOSTON, MASS.**

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS, Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

Failure of the Texas Seed Co, Waco, Texas.

LIST OF CREDITORS.

Pratt Food Co., Philadelphia	$ 5.21
S. L. Allen & Co., Philadelphia	134.57
Stecher Litho. Co., Rochester	119.13
Mrs. Cora L. Christopher, note	750.00
Texas Seed & Floral Co., Dallas, Texas	11.90
J. C. Vaughan, Chicago and New York	10.52
P. C. Lewis, Catskill, N. Y.	3.63
D. Landreth & Sons, Philadelphia, Pa.	63 60
Griswold Seed Co., Lincoln	327.66
R. Frotscher, New Orleans	15.00
Peter Henderson & Co., New York	31.00
Z. De Forest Ely & Co., Philadelphia	526.16
D. I. Bushnell & Co., St. Louis, Mo.	53.52
Northrup, Braslan & Goodwin Co., Minneapolis	84.42
Ed. Strauss, Waco	5.00
Michel Plant & Seed Co., St. Louis	25.65
L. H. Rumsey Mfg. Co., St. Louis	65.55
Yoakum Seed Co., Tyler	8 40
Farm & Ranch, Dallas	14.70
Davis & Davis, note	50.00
Mrs. M. W. Trice, Waco	104.45

PREFERRED CREDITORS.

Mrs. M. N. Trice, Davis & Davis, Mrs. Cora L. Christopher.

ASSETS.

Stock and Fixtures	$1,307.00
Notes and accounts	170.00

I find no one interested in this company except W. T. Christopher.

C. W. COCKERHAM, Trustee.

It would be interesting to know on what grounds the Texas Seed Co. based their request for credit. The above figures would indicate that many of the leading seed houses have not yet drawn their lines of credit sufficiently close, or that the concern has been mismanaged.

MR. S. F. LEONARD and wife are now in San Jose, Cal.

BOTH St. Louis and Toledo are mentioned for the next annual meeting.

ALL varieties of pole beans growing in California are reported in bad shape.

RAINS occurring in different sections through the west about June 16 have improved the crop conditions.

AMONG the flower seed novelties promised for 1895 is a double morning glory and new colors in Jewell asters.

J. M. THORBURN & Co. have had their business incorporated under the New Jersey laws with a capital stock of $300,000.

HOLDERS of vine seed stocks are not disposed to make rates while the outcome of the Nebraska crops of this season is so uncertain.

THE American Seed Trade Association now has an active membership list representing over 135 of the leading houses in U. S. and Canada.

THE Blue Grass crop is reported good, and if dry weather continues for the next ten days, or the harvesting season, materially lower prices are assured.

PRESENT STATUS of Wilson tariff bill as it affects the seed trade is as follows: Garden seed, 10%; beans, 20% ad valorem; peas, 20 cents per bushel of 60 pounds.

PEA CROPS are said to be in fair condition, though some growers claim their fields to be one-third off; others say Wonders, Stratagem and two or three other green sorts are short.

THE CITY of Toronto has been so fortunate as to receive from Sir David MacPherson his extensive collection of hard wooded plants, the result of some 40 years of intelligent and painstaking effort on this line.

THE ELECTION of officers of the Am. Seed Trade Association for 1895 took place on Thursday and resulted as follows: D. I. Bushnell, St. Louis, president; S. E. Briggs, Toronto, first vice-president; T. W. Wood, Richmond, Va., second vice-president; A. L. Don, New York, secretary and treasurer; Frank T. Emerson, Waterloo, Neb., assistant secretary. Executive committee: W. Atlee Burpee, Philadelphia; Jerome B. Rice, Cambridge, N. Y.; J. Charles McCullough, Cincinnati; E. B. Clark, Milford, Conn.; C. P. Braslan, Chicago. Membership committee: W. W. Rawson, Boston; Frank Ford, Ravenna, O.; H. A. Johns, Sioux City, Iowa.

ONION SEED.

CROP 1894.

Prices for New Crop made on Application.

COX SEED AND PLANT CO.
411, 413 & 415 Sansome Street,
SAN FRANCISCO, CAL.

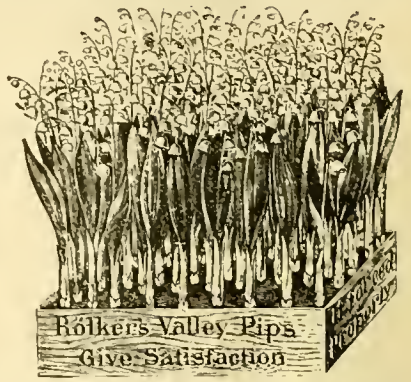
HERMANN'S SEED STORE,
413 EAST 34TH STREET,
Near Long Island Ferry, NEW YORK.
JUST IN, NEW CROP OF
Primula chin., Cineraria hybr.
We are now ready to book orders for
ROMAN HYACINTHS, LILIUM HARRISII, LILY OF THE VALLEY, ETC.
Write for prices, it will save you money.

PRICES LOWER ON
Bulbs & Plants
OF STANDARD QUALITY.
For Catalogue, address
C. H. JOOSTEN, IMPORTER.
3 Coenties Slip, NEW YORK.

JOHN BARTH BOS,
BULB GROWER,
OVERVEEN, HAARLEM, HOLLAND.
Agents for U. S. and Canada:
C. B. RICHARD & CO.,
61 BROADWAY, NEW YORK.
Trade Catalogue on application.

Mention the American Florist when writing to advertisers on this page.

Orders Booked Now



for Future Delivery:
Lily of the Valley, forcing pips; Roman Hyacinths, Narcissus, Spiræa, and all forcing bulbs. Azalea, Rhododendron, Roses, etc., plants. Address
August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. New York.

AMERICAN GROWN DUTCH BULBS.

To introduce my American grown Narcissus for forcing by florists I make the following special offer. *Bulbs ready now.*

	Per 100
NARCISSUS CAMPERNELLE, - -	$.75
DAFFODIL RUGILOBUS, - - -	1.50

I would like to correspond with any one desirous of going into the business of growing Dutch bulbs in America. I have a stock of 400,000, in 10 to 18 varieties.

South Carolina is the very best section of the U. S. for the growing of these bulbs. I have successfully demonstrated this, and can offer a splendid opening to a man with some capital and familiarity with horticultural work.

MRS. J. S. R. THOMPSON,
. . . SPARTANBURG, S. C.

RARE SEEDS, BULBS, PLANTS AND CACTI.
NEW MAMMOTH PERFECTION COSMOS, "Erlinda" (white); Roseta (pink), both sorts mixed.
NEW GIANT CALLIOPSIS "Golden Glory."
NEW IPOMŒA Heavenly Blue.
HYBRID BEGONIA SEED.
SMILAX. FRENCH CANNA.
NEW TOM THUMB NASTURTIUMS.
MAMMOTH VERBENA (pink, white and red only).
FINE HYBRID CACTUS SEED.
CACTUS Night-bloomers and choice Hybrids (also Cuttings).
CUTTINGS of all classes of GERANIUMS in large quantities.
Contracts taken for Fall Delivery. Send for trade list.
MRS. THEODOSIA B. SHEPHERD,
VENTURA-BY-THE-SEA, CAL.

SEEDS! PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

Mention American Florist.

Our buyers will visit Holland, Southern France and Bermuda during the month of June, and orders placed with us now will have most careful personal attention by them.

IMPORT BULB PRICES.

ROMAN HYACINTHS, and all French Bulbs
LILIUM HARRISII AND DUTCH BULBS.
FREESIAS Ready, Select Bulbs, per 1000, $6.00.

NOW is the time to order. We are quoting the lowest rates of the season.

☞APPLE GERANIUM SEEDS, new crop, per 100, 25c ; per 1000 $1.25.

NEW YORK: 26 Barclay Street. **VAUGHAN'S SEED STORE** 146-148 W. Washington St., CHICAGO.

VAN ZONNEVELD BROTHERS & CO.
SASSENHEIM, - HOLLAND,

—GROWERS OF—

HYACINTHS, TULIPS, NARCISSUS, ETC.
Now ready to quote our lowest prices for Wholesale Importers.

P. VOS & CO., SASSENHEIM, HOLLAND,
GROWERS OF

Hyacinths, Tulips, Crocuses, Narcissus, etc.

WE ARE ABLE TO QUOTE THE LOWEST PRICES FOR WHOLESALE DEALERS.

5,000,000 FREESIAS

Buy FIRST HAND. We will deliver Freesia Bulbs, all charges for transportation paid, as follows:

3-8 to 3-4 inch per 1000, $4.00
1-4 to 5-8 inch per 1000, $3.00

Liberal discount on larger lots. Send for our price list.

Order **NOW** your Japan Bulbs, Longiflorum, Auratums, Rubrums, Albums, we are **Headquarters.** We are the **ONLY FIRM** in the U. S. who guarantee you **SOUND BULBS** delivered.

Address all communications to

H. H. BERGER & CO.,
(Established 1878.) SAN FRANCISCO, CAL.

Hulsebosch Brothers,
OVERVEEN, near Haarlem, HOLLAND.

Bulbs AND Plants

We are now prepared to quote lowest possible prices for next July, August and September delivery.

Illustrated Wholesale Catalogues on application.

HULSEBOSCH BROS.,
ENGLEWOOD, N. J.



New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from $1 order).

A. BLANC,
Engraver for Florists,
PHILADELPHIA, PA.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

PITCHER & MANDA,
SHORT HILLS, N. J.,

are now prepared to quote the *Lowest Import Prices* on all kinds of

BULBS FOR FALL PLANTING,

and prospective buyers would do well to secure their prices before placing any orders.

If you are a buyer of forcing bulbs, send them a list of the quantities you require for estimate.

UNITED STATES NURSERIES,
SHORT HILLS, N. J.

CYCLAMEN SEEDS,
European strain.

LILIES OF THE VALLEY,
Berlin and Hamburg Pips.

FLOWER SEEDS for Fall delivery.

METAL WREATHS.
All at Import Prices.

SCHILLER & CO.,
Commission Seed Merchants,
122 E. 23rd Street, NEW YORK.

Please make us offer of all kinds of Seeds and Bulbs, we will sell it for you.

Great Bargains in Calla Bulbs.

Desiring to CLOSE OUT my ENTIRE STOCK of CALLA LILIES I offer Bulbs, all sizes, VERY LOW for August delivery. Send for prices.

Will exchange splendid large Bulbs of Polyanthus Narcissus mixed, for Rex Begonias.

MRS. THEODOSIA B. SHEPHERD.
VENTURA-BY-THE-SEA, CAL.

TOBACCO DUST. Per 10 lbs 50c; 25 lbs $1.00; 50 lbs $1.50; 100 lbs $2.50. ☞Sample FREE.

Vaughan's Seed Store, Box 688, Chicago.

FORCING ROSES.

The nice, clean stock of forcing roses in following numbers and varieties, true to label. Must be sold to make room.

300 Brides, 4-inch; 600 3-inch.
1300 Mermets, 4-inch; 340 3-inch.
640 Perles, 4-inch; 525 3-inch.
80 Mme. Testout, 4-inch.
250 La France, 4-inch.

4-inch $10.00 per 100; 3-inch $6.00 per 100.

580	Bridesmaids, 3-inch	$7.00 per 100
100	Kaiserin Augusta, 3-inch	10.00 per 100
80	Mme. Testout, 4-inch	for $12.00
50	American Belle, 4-inch	for 10.00
100	American Beauty, 3-inch	for 10.00
160	" " 4-inch	18c. each
175	" " 5-inch	25c. each

Cash must accompany order.

FRED. BURKI, *Wholesale Florist,*
BELLEVUE, Allegheny Co., PA.

AMERICAN BEAUTIES.
Strong plants from 2½-inch pots, $50.00 per 1000.
From 3-inch pots, $70.00 per 1000.

TESTOUTS AND BRIDESMAID.
From 3-inch pots, $6.00 per 100.

BRIDES, 3-inch pots, $5.00 per 100.

Chrysanthemums.
Strong plants of leading varieties. Our selection. $3 per 100; $25 per 1000.

J. T. ANTHONY,
2205 Michigan Ave., CHICAGO.

SPECIAL.

For sale in 3-inch pots, well grown, strong plants, f. o. b. on cars at our place. No charge for packing.

TERMS: Three months, or 10 per cent. off for cash in five days. . . .

PAPA GONTIERS,	MARIE GUILLOT,
BRIDE,	SUNSETS,
LA FRANCE,	WOOTTONS,
WABANS,	PERLES,
BRUNNERS.	MERMTES,

MAGNA CHARTA.

LA ROCHE & STAHL FLOWER CO.
LIMITED.
COLLINGDALE, Del. Co., PA.

ROSES.

Strong, healthy plants, from 2, 2½ and 3-inch pots, price, $3 00, $4.00 and $6.00 per 100.

PERLE, SUNSET, NIPHETOS, MERMET, BRIDE, METEOR, WOOTTON, HOSTE, M. NIEL, LA FRANCE, AND ALBANY.

Strong AM. BEAUTY, from 2-inch pots, $4.00 per 100.

JOSEPH HEINL, Jacksonville, Ill.

HERE IS WHERE YOU GET YOUR MONEY BACK.

Strong 2½-inch Bride, Mermet and Albany Roses, $2.50 per hundred.

STRONG SMILAX PLANTS,
Ready for planting, $10.00 per thousand.
—Cash with order.—

SOUTH SIDE FLORAL CO.,
. . . . SPRINGFIELD, ILL.

ROSES.

Mermets, Bride, Gontier, Perle, Clim. Perle, Sunset, Wootton, Niphetos, Hoste.

First quality stock from 4-in. pots.

PER HUNDRED. $10.00.
PER THOUSAND $90.00.

GEO. L. PARKER,
807 Washington St., Dorchester, Mass.

St. Joseph, Mo.

I suppose our trade has been fully equal to other parts of the country. While there has been no special gain yet we have held up to our former trade, both in cut flowers and plants, and at times exceeded. This was especially so both at Easter and Decoration Day. We found we had calls for a better class of flowers than is usual for the last named day.

In plants I was fearful that the trade would be demoralized in the early season. Like nearly all other cities, we have a couple of florists who pride themselves on cutting prices. One house started out at retail price and a discount off of ⅓ to all their customers. Two other houses sold at about fifty per cent below the usual retail price. As I have always been opposed to cutting, I held out for my prices —geraniums, 3-inch $1; 4-inch $1.50, per doz.; E. B. roses $2.50 per doz., 4-inch pots, and other things at the same rate. Our planting season is just over and our houses are empty.

D. M. REICHARD.

Coke Dust for Propagating.

Instead of using sand, Mr. A. A. Young, the florist of Jewett City, Conn., fills his propagating bench with coke dust procured from a nearby gas house. He finds that cuttings of all soft stuff root much more readily in this material than they do in sand; furthermore it is of gritty substance, never turns sour and does not soil the fingers as one would suppose. It is a waste product, the gas house people being obliged to him for taking it away. His gas bills however run as high as ever.

A. T. B.

200,000 ROSES 200,000

Nice stock from 2½-inch pots.

	Per 1000	Per 100
PERLE	$25.00	$2.80
SUNSET	25.00	2.80
BRIDE	22.50	2.50
MERMET	22.50	2.50
GONTIER	22.50	2.50
MME. CUSIN	22.50	2.50
MARECHAL NIEL	25 00	2.80
LA FRANCE	24 00	2.75
WHITE LA FRANCE	24.00	2.75
ALBANY	24 00	2.75
METEOR	22.50	2.50
WATTEVILLE	22.50	2.50
SOUPERT	22.50	2.50
CLIMBING PERLE		3.50
BON SILENE		3 00
MRS. OeGRAW		3.00
SOUV. D'UN AMI	22 50	2.50

And all standard varieties in Hybrids, Teas, Hybrid Teas, Climbers, Polyanthas, etc, etc. Strictly our own selection, $20.00 per 1000; $2 25 per 100. Same from 4-inch pots, $6.00 per 100.

Send in your lists for prices.

TERMS CASH WITH ORDER.

CUT SMILAX, 10 cents per String.

THE NATIONAL PLANT CO.,

Dayton, Ohio.

Mention American Florist

Roses for Planting.

	Per 100		Per 100
BRIDE, 2½-inch	$4 00	3-inch	$6 00
BRIDESMAID, 2½-inch	5 00	3-inch	8 00
K. A. VICTORIA, 2½-inch	5.00	3-inch	8 00
MME. HOSTE		3-inch	6 00
PERLE		3-inch	6 00
NIPHETOS, 2½-inch	4 00		

All are strong healthy plants.

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ROSES. ROSES. ROSES.

Last call. See our Low Prices. Per 100

5000 Am. Beauties, in 3-inch pots, $4 00
5000 Testout, 2-inch " 4 00
1000 Brides, 3-inch " 4 00
1000 La France, " " 4 00

Also other varieties at same price.

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ROSES. Fine thrifty plants, from 2½-inch pots.

	Per 100		Per 100
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PERLES,	4 50	WICHURAIANA,	5.00
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ALTERNANTHERA, red and yellow (1000 $25)	$3 00	CUPHEA LLAVAE	$4.00
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AMERICAN BEAUTY, 2 1-2 inch, $6.00; 3-inch, $8.00 per hundred.

THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

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PERLES, SAFRANO,	SUNSETS, NIPHETOS, 3-inch pots, $7 00 per 100.	BON SILENE, BRIDES, 4 inch pots, $10.00 per 100.	MERMETS, MME. HOSTE,

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Strong American Beauties, $5.00 per 100; $40 00 per 1000. 500 at 1000 rates.

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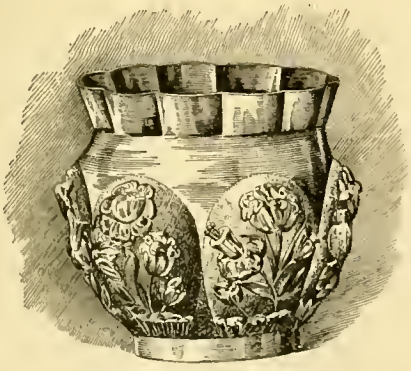
WINTER FLOWERING ROSES



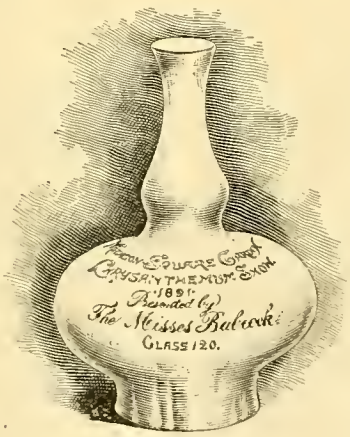
We devote more than half of our greenhouses to the production of Winter Flowering Roses, and have the finest range of greenhouses in this country for that purpose; they contain every improvement in regard to durability and labor-saving appliances; the rafters and purlins are of wrought iron, securing very light roofs and extreme durability. The water is warmed in very cold weather before using by the exhaust steam from the steam-pump that supplies the houses with water; liquid manure is all pumped by steam, and everything to secure the highest development of our stock, and at the least expense, has been sought for and secured, and our new range of iron rose houses, covering two acres of ground, and **devoted exclusively to the production of cut roses,** are conceded by all who have examined them to be without question the finest range of greenhouses devoted to rose culture in the United States, and we believe, in consequence, we have exceptional facilities for supplying strong young healthy rose stock at the lowest possible prices. These houses are worth examination, as they are conceded to be model houses in every way. Visitors are always welcome.

AMERICAN BEAUTY.—The largest rose and the most vigorous growing by far among continuously blooming roses, throwing up very strong stems from the base of the plant, every shoot terminated with a single flower, which is of the largest size. Color, deep rose. In foliage and size of flower it resembles the large Hybrid Perpetual or Hardy class, and is similar to Magna Charta or Gloire de Paris. It is as fragrant as the most fragrant of Hardy roses, which, coupled with its vigor, large size and beautiful color, long stems and continuous bloom, places it at the head of Winter blooming roses. It requires skill and favorable conditions to flower it in perfection, but when successfully flowered no other rose approaches it for beauty or profit. 2¼-inch pots, **$10.00 per 100; $90.00 per 1000.**

MME. CAROLINE TESTOUT.—This rose has attracted more attention than any rose sent out since the American Beauty. It was the winner at the Madison Square Garden Chrysanthemum Show of the LANIER SILVER CUP for the best new seedling of European origin not exhibited previous to 1892, and it was constantly surrounded by an admiring group throughout the show. It is a Hybrid Tea, with a decided, though delicate tea fragrance. It is a very vigorous grower, throwing up heavy bottom shoots in profusion, and is also a remarkably free bloomer for so large and fine a rose, producing scarcely any blind wood. In form it is very similar to La France, and in size much larger. In color it is simply unequalled among pink roses, being of a wonderfully clear brilliant pink, of one solid tone, without shading of any kind. It needs no special treatment, and for a high class rose of easy culture, it is certainly unequalled. Large roses that can be cut in the half-blown state, like Beauty, are becoming yearly more fashionable and the popular taste seems to be growing in this direction; we have needed a good pink rose to meet this demand, and believe that Mme. Testout will fill the bill. Mr. Ernst Asmus says: "This is the best Hybrid Tea the French have ever sent out." Mr. W. W. Coles says: "I have grown many varieties of roses, but have never seen one with so many good qualities as the above. I shall be very much mistaken in my prediction if we do not find, within a few years, that there are a thousand Testouts grown for every hundred La France." Mr. Robt Craig says: "I want to tell you that's a nice thing. The color of Testout is its great point. In that respect it is far ahead of La France. It will keep in the cellar for three or four days, and as the color fades it keeps a pleasant shade." Growers, Retailers and Flower Buyers are alike enthusiastic in its praise, and in our opinion this rose is destined to win a high place and prove very profitable to the grower. First premium awarded us for this variety, N. Y. Chrysanthemum show, Fall, 1893. Price, 2¼-inch pots, **$8.00 per 100, $75.00 per 1000.**



Silver Cup awarded us for Meteor Roses, exhibited at Madison Square Garden, 1892, for best 25 Red Roses of any variety.



Silver cup awarded us 1891 for our exhibit of Meteor Roses; for best 100 Red Roses of any variety.

KAISERIN AUGUSTA VICTORIA.—A new rose of German origin that is attracting a great deal of attention and promises to be of great value. In color it is midway between Bride and Mme. Hoste, a delicate cream white. The buds are both larger and longer stemmed than those of Bride. The habit of the plant is singularly strong, vigorous and healthy; the flower is most deliciously fragrant. Winner of the Silver Cup offered by the F. R. Pierson Company, at the Madison Square Garden Chrysanthemum Show for the most promising forcing rose never before exhibited at a New York show. First premium New York Chrysanthemum Show, Fall, 1893, awarded us for this variety. Price, 2¼-inch pots, **$8.00 per 100; $75.00 per 1000.**

BRIDESMAID.—(Originated by Frank L. Moore.) This is the rose we have all been waiting for—*a Mermet whose color is constant* through all kinds of weather. Mermet has always been acknowledged as more nearly approaching perfection than any other pink rose, its one fault being its tendency to lose color in dark weather. In the *Bridesmaid* we have it with this one fault corrected, and every good trait unchanged. It is identical in form, habit of growth and freedom of bloom with its parent, and, unlike Waban, it never produces malformed buds. Many of the largest and most wide-awake growers about New York intend to discard Mermet and plant Bridesmaid in its place the coming season, and we believe results will prove their wisdom, as its uniform good color causes it to bring a correspondingly uniform good price, and hence makes it much more profitable. The past winter it has brought fifty per cent more than Mermet; when it is realized that it is fully as free of bloom, no more need be said on this point. We won *First Prize* two successive days at the Madison Square Garden Chrysanthemum Show, fall of 1892, for this variety. Mr. T. J. Slaughter, who has been a large and very successful grower of Mermet, voices the universal verdict when he says: "It gives me great pleasure to give the Bridesmaid my hearty recommendation; from my experience with it this year *I am convinced it will supersede the Mermet entirely*, owing to its better color and greater market value. I intend to give it all the room I can possibly spare. I think growers will go strong for it next year." 2¼-inch pots. **$8.00 per 100; $75.00 per 1000.**

METEOR.—The finest crimson rose for winter blooming; very double and very dark velvety crimson scarlet, its only fault being a tendency to become black during the shortest days of winter, but when well grown it is not excelled; a superb variety. We grow this rose very largely, and won a Silver Cup at the Madison Square Garden Chrysanthemum Show, for the best twenty-five blooms, also both first and second prizes for the best twelve blooms. We are recognized as having the best stock about New York, and are headquarters for this variety. In 1893 we again received First Premium for our exhibit of Meteor at the New York Chrysanthemum Show, and also a **Bronze Medal at the World's Columbian Exposition in Chicago,** for our exhibit of this variety. 2¼-inch pots. **$6.00 per 100; $55.00 per 1000.**

SOUVENIR DE WOOTTON.—A very valuable scarlet-crimson, much like Jacqueminot in size and color; an easy variety to flower and has a delicious fragrance. Throws good stems, but frequently in clusters, in which case, by disbudding, the size of the flower is largely increased. The best crimson Winter-flowering rose at the present time **"for general use,"** all things considered. 2¼-inch pots. **$6.00 per 100, $55.00 per 1000.**

MME. CUSIN, PERLE, MERMET, NIPHETOS and BRIDE, $5 per 100; $45 per 1000.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, N. Y.

Lenox, Mass.

Lenox at this season is a veritable paradise, in which some of the most active angels are members of the gardening fraternity; everyone is very busy, but notwithstanding that fact the boys are always glad to show a stranger all the courtesy and hospitality that lays in their power.

The mansion of Mr. G. H. Morgan affords the finest views in Lenox. It is built in the Elizabethan style of architecture and only recently finished. The pleasure grounds are forty-five acres in extent and were laid out and planted entirely under the direction of Mr. J. F. Huss, the genial superintendent, who in two years has transformed the place from a howling wilderness into a triumph of the landscape gardener's art. Many large trees, in some cases sixty feet high, with frozen balls of earth fourteen feet in diameter, were moved, and of all the trees so moved (principally birches and sugar and scarlet maples) not one has died, in fact the magificent trees on the place are among its greatest attractions; the large elms, birches, maples and locust and tulip trees are unequalled in Massachusetts. Other pleasing features are a lawn twenty-five acres in extent planted at intervals with beds of choice conifers, Japan maples (in thirty-two varieties) and two immense beds of hardy rhododendrons. The kitchen garden and greenhouses are in truly English style, being surrounded by a brick wall eight feet high enclosing about two acres. Against this wall are planted trained fruit trees; the beds of the garden are bordered with cordon-trained apples. The greenhouses consist of four plant houses, added to which are rose, palm, peach and nectarine houses, all well stocked.

At the place of W. D. Sloan, Esq., everything is in the apple pie order characteristic of Mr. W. Griffin, the superintendent. The large collections of palms and ferns are in grand shape. In this class of stock Mr. Griffin has the largest and finest collection in this vicinity. A house of American Beauties he has just planted is a sight to behold.

Mr. A. H. Wingett, superintendent at Charles Lanier's, has a very fine hybrid anthurium that he expects great things of. X.

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Prices Lower Than Ever.

Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to $5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

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A grand selection for Stove, Greenhouse and Conservatory.

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Unsurpassed Mammoths, 2¼-inch pots	$1.00	$25.00
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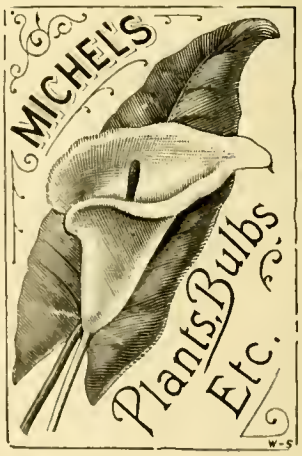
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We offer an immense stock of strong, well established plants from 4-inch pots, which will make a display at once. All have been well hardened off in open frames, and must not be confounded with dormant eyes or freshly divided plants out of benches.

We list here only the principal varieties, of which we have a large supply. For a general list refer to our Spring Trade List, which describes over seventy-five varieties including all the desirable novelties of the season.

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CELERY PLANTS, $1.00 per 1000. Strong, well rooted and stocky.
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Owing to favorable weather, have been simply magnificent, this season, and our seed beds are a sight to behold. Never before have we obtained such size and colors, and as usual, wherever exhibited, have eclipsed everything else, receiving also the most flattering testimonials from the leading florists and seedsmen all over the country.

We will have new Seed to offer on about July 1st of our popular strains

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in trade packages of 2000 and 500 seeds respectively, with practical directions to sow and grow our pansies; pkt. $1.00 each.

Also plants for sale later on.

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The JENNINGS STRAIN of high grade Pansy Seed. New crop now ready. Saved with special care from only the very finest varieties and (warranted) first-class in every respect.

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The cream of Pansies. Grand colors mixed. pkt., 1500 seed, $1.00; 1 oz. $8.00.

The Jennings Strain, finest mixed, pkt. $1.00 about 2500 seed; 1 oz. $6.00; 3 ozs $15.00. No skim milk in this strain. (They are just as good as I can make 'em). To my old patrons I would say they are a big improvement over last season—more variety and finer colors. The best strain for florists either for winter bloom or spring sales; all large flowering.

Black Dr. Faust, finest	pkt., 2500 seed,	$1.00
Finest Yellow, black eye	" "	1.00
Pure White, the best	" "	1.00
Victoria, bright red	pkt., 1000 seed,	1.00

All my own growth of 1894. Half pkts. of any of the above 50c. Please send money orders or registered letter. Cash with order. Address

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RIESEN PENSEE
neue ernte fertig mitte Juni. Blumen uber 3 70 im Durchmesser, schone Form, meist helle Farbe von unubertrefflicher Qualitat. 1000 Korn $1.0 5000 Korn $1 in Briefmarken oder Post Anweisung.
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Pansies Worth Raising.

There is money in them. They have proved it again, even in these hard times. NEW SEED, perfectly ripe.

1-10 of an ounce	$1.00
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Cash with order.

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The new Carnation; pure white, delicately marked with red.
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is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. NO MORE SAMPLES—we cannot spare the time. Send for circular. Per dozen, $2.00; per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.

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Rooted Cuttings all sold or planted out. Field plants for sale in the fall.

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STANDARD VARIETIES.
MARIE LOUISE VIOLET RUNNERS.
SMILAX, 2½-inch pots.
Satisfaction and prompt shipment guaranteed.
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PLANTS.

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Fuchsias, best varieties, nice, 2½-inch pots	$2.00
" " " " 3-inch pots	3.00
Geraniums, Bronze, nice plants	2.50
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Alternanthera auren nana, stocky plants	1.50
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Address N. S. GRIFFITH,
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Rooted Cuttings and Young Plants sold out. Nice Field-Grown Plants in Sept. Send for prices.
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CHRYSANTHEMUM NIVEUS.

Now ready, from 2-inch Pots, strong plants, price, $1.50 per dozen; $10.00 per hundred.
DAILLEDOUZE BROS., Flatbush, L. I., N. Y.

Worcester, Mass.

It was the same old story Memorial Day, more stuff than ever before, and we would have sold twice as much; all the florists (of the progressive order) reported a much larger business than in 1893. There was an unusually large demand for carnations, and although we handled a good many we stopped booking orders the 28th. Roses of course were also short, in fact everything was short, but the demand for carnations and roses was the most noticeable. Lange had a hundred foot house of pink and white stock, and five hundred longiflorums, that helped to fill the aching void, also his inside pocket. The trade did not differ much from that of last year, the call being mostly for loose flowers, bouquets and baskets. Small hydrangeas, etc., in pots disappeared early in the game.

The regular trade is very fair; we are handling large lots of first-class stuff, and regular prices are still holding firm; we are also doing considerable funeral work of the best class.

The first lot of outside hybrid roses were brought in the 9th of June, which is as early as I have ever seen them; all we need now is a good crop of June weddings to use them up.

Most of the churches decorated quite extensively June 10, Children's Sunday, and gave to each child a potted plant. Florists who handle bedding stuff report fairly good sales. SEEDLING.

San Francisco.

Mr. Robt. Armstrong, for some years manager for Timothy Hopkins, Esq., at Sherwood Hall (Sunset) Nurseries, has commenced business on his own account at Mountain View, Santa Clara Co., and is going to grow cut flowers for the San Francisco market. He has commenced building four greenhouses, one for roses, one for chrysanthemums, another for carnations and one for violets. He is a thoroughly competent florist, attentive, obliging and has the respect and good will of all who know him and has every chance of a successful venture.

John McLaren, superintendent of Golden Gate Park is a hustler. The beautiful artistic carpet and other bedding is nearly all complete; the designs are excellent and the workmanship cannot be surpassed.

G. M. S.

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Plants from last fall; these have a foundation and will begin to run strong at once. $2.50 per 100; $20.00 per 1000.

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Special prices at wholesale, on application. Splendid stock and assortment.

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WHITE PLUME, GIANT PASCAL, GIANT GOLDEN HEART and GOLDEN SELF BLANCHING.

Field-grown plants, $1 25 per 1000.

The New PINK PLUME, transplanted plants, $3.50 per 1000. Cash with order.

Sample mailed free.

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Cyclamen Seeds.

KOCH'S SUPERB PRIZE CYCLAMEN,

The Finest Strain in the World.

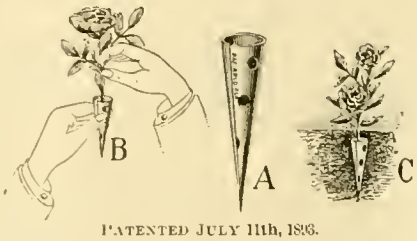
Bright dark red	1000 seeds $4 50
Rose of Marienthal	1000 seeds 4 50
White with carmine eye	1000 seeds 5 75
Mont Blanc, EXTRA	1000 seeds 6 25

Cash with order

LUDWIG KOCH, Wandsbek, Hamburg, Germany.

Mention American Florist.

FRANCIS' METAL STEMMING POINTS.



PATENTED JULY 11th, 1893.

Latest Device for Stemming Cut Flowers without Toothpicks and Wire.

Will keep set pieces fresh longer, as flower stem is entered deep in the moist moss. Made from solid brass, will not rust, very convenient, saves valuable time and labor. You can stem flowers with these points in one-quarter of the time as when done with toothpicks. Will hold a pansy as well as a calla lily. Manufactured by the **Novelty Point Works** in 5 sizes, from ⅛ to ½ inch in diameter.

In Boxes of 1000 Points.

SIZE No. 1 (smallest)..... 60 cts. SIZE No. 3..... 80 cts.
SIZE No. 2 70 cts. SIZE No. 4..... 90 cts.
SIZE No. 5 (largest), per box of 250 points, 32 cts.

FRANCIS' CORRUGATED HOLD FAST GLAZING POINTS.

Per box of 1000 Points 50c. Can be sent by mail for 13c in addition. See advertisement in last issue, June 14

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A. ROLKER & SONS, - - - - New York.
WM. ELLIOTT & SONS, - - - New York.
C. H. JOOSTEN, - - - - New York.
PETER HENDERSON & CO., New York.
F. E. McALLISTER, - - - - New York.
WEEBER & DON, - - - - - New York.
J. A. SIMMERS, - - - - Toronto.

Samples for trial sent by mail, postpaid, on receipt of 10 cents. Address

HERMANN ROLKER, Room 3, 218 Fulton Street, NEW YORK.

GENERAL AGENT FOR AMERICA AND EUROPE:

Water Plants.

Eichhornia Azurea (New Blue Water Hyacinth), each 20c; dozen $1.75.

Eichhornia (Pontederia) Crassipes Major (Water Hyacinth), $2.00 per 100, prepaid, or $8.00 per 1000, not prepaid.

	Each	Doz.	Per 100
Nelumbium Speciosum.	$.40	$5.00	$25.00
Nymphæa Devoniensis	.50	5.00	
" Flava	.20	2.00	8.00
" Odorata.	.10	1.00	6.00
" " Gigantea.	.20	2.00	12.00
" Zanzibarensis Azurea, in bloom	.40	3.50	25 00
" Rosea, in bloom. . . .	.40	3.50	25.00
" Dentata.	.50	4.00	30.00
Pistia Stratiotes or Water Lettuce		.15	1.00
Myriophyllum Proserpinacoides or Parrat's Feather.		.15	1.00
Sarracenia Variolaris. .	.10	.50	3.00
Limnocharis Humboldtii (Water Poppy) . .	.10	.60	4.00

Small plants of N. Zanzibarensis and N. Dentata, 10c each, or seeds 10c per large packet, or $2 00 per ounce, not prepaid.

Nephrolepis Exaltata (Sword Fern), selected plants from open ground, $12.00 per 100, or $2 00 per 100, delivered.

BRAND & WIGHERS,

SAN ANTONIO, FLORIDA.

OUR BARGAIN LIST. Per 100

English Ivy, 3-inch pots, 3 to 4 feet high$2.00
Coleus, our regular $3 assortment. 1.50
Polyanthus, 3-in. pots our regular $6 plants..... 2.00
Geraniums, assorted, to save carrying over..... 2.00
Alternanthern, to close at once. 1.00
Roses (special offer), Bride, La France, Mermet... 2.00
Verbenas, nice assortment of colors, 2-inch..... 1.00
Fuchsias, extra nice, in bloom..... 2.00

The "Hard Times" Cash Collections of Palms (17 3 & 4-in. for $5, and 34 for $5; Latania, Kentias, etc.) are moving, but we can supply all who send at once. Mention AMERICAN FLORIST and receive large Tritoma uvaria, or 3 English Ivy, free.

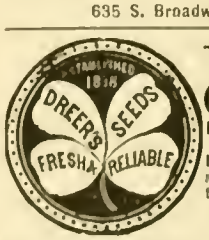
WILLIAMS & SONS CO., Batavia, Ill.,
Manufacturers of BATAVIA LABELS.

35,000 FRESH SEED Phoenix Canariensis,

from an extra fine isolated specimen, $2.25 per 1000, prepaid. Cash with order.

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635 S. Broadway, LOS ANGELES, CAL.



TRY **DREER'S GARDEN SEEDS,**

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

SMILAX.

Fine, healthy plants, in 2½x3 inch pots, ready to make good strings, $2.50 per 100. Cash with order.

N. ZWICHEL,
Cor 14th St. & Greeling Ave., MILWAUKEE, WIS.

ROOTED CUTTINGS

COLEUS, 10 kinds by mail.....60c per 100
" 12 kinds by express..$4.00 per 1000
ALTERNANTHERA P. Major by mail.....50c per 100

CASH WITH ORDER.

S. O. STREBY,
Lock Box 77,
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WHITE DOVES
FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,
850 Montgomery St., Jersey City, N. J.



Tuberous Begonias.
GRIFFIN'S STRAIN.
Medal awarded World's Fair.

We are headquarters for the above, the finest strain in the world. Send for illustrated descriptive catalogue with copyright engravings. It tells you all about them.

OASIS NURSERY CO.,
Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.

The Water Garden.

Special and Hardy Water Lilies of all colors.

VICTORIA REGIA AND V. RANDI, EURYALE FEROX.

Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc., etc. Nymphæa Laydekeri rosea (awarded a Medal at World's Fair); most charming of all the HARDY Lilies; $2 50 each.

Other Columbian Novelties see catalogue.

WM. TRICKER & CO., Clifton, N. J.

CYCLAMEN.

Best German Strain. New Seed.

	1000 seed
Cyclamen Giganteum, dark red . .	$4.75
" " pink Rosa Marienthal .	4.75
" " white with red. . . .	4.75
" " best white	5.50
" " mixed all colors .	4.50
" " mixed all colors 75c 100 seed.	

Cash with order. **AUGUST BECKER,**
P. O Box 116. Lexington, Ky.

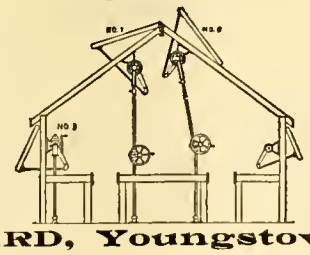
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FOR 1894
IS NOW READY.
PRICE $2.00.

VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

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PATENT

Florists' Letters, Etc.

Medal Awarded at the World's Fair.

These letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, $3.00 per 100.

Postage, 15 cts. per 100.

Before purchasing send for free sample and catalogue and compare with any other letter on the market.

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For sale by all Florists' Supply Dealers.

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.

Address all correspondence to 1 Music Hall Place.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston.

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FLORISTS' SUPPLIES ONLY,

50 N. 4th Street,

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Our new Catalogue is now out, free upon application.

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Send for Catalogue.

MEDAL AWARDED, World's Fair.

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Wholesale FLORISTS' SUPPLIES

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GLASS. ROCK BOTTOM PRICES Send for Estimate. Satisfaction Guaranteed.

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THE AMERICAN FLORIST CO.'S

DIRECTORY

AND

REFERENCE BOOK

FOR 1894

CONTAINS THE FOLLOWING:

1. The names and addresses of the Florists, Nurserymen and Seedsmen of the United States and Canada, the exact branch of the business each is engaged in being indicated.
2. A separate list of firms that issue catalogues, the space devoted to each branch of the business in each catalogue being also given.
3. A list of the names and addresses of superintendents of leading parks in the U. S. and Canada.
4. A list of the principal cemeteries of America at which the arts of the landscape gardener and florist are used in beautifying the grounds.
5. A complete, alphabetically arranged list of Roses in commerce in America, with class, habit of growth, date of introduction, name of introducer, and brief, accurate descriptions of the flower of each. Synonyms are also plainly given.
6. A complete, alphabetically arranged list of Chrysanthemums in commerce in America, with class, and brief, accurate description of each. Synonyms are noted and varieties that are very popular with American growers are designated by a star, and this year's introductions by a dagger.
7. A complete, alphabetically arranged list of the Carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each.
8. Seasonable Hints for the year, arranged in weeks, written by Mr. William Scott, and covering every detail of a general florist business. This is decidedly the most valuable contribution to the literature of the trade ever published. It is written in a plain, practical way, by a man who knows what he is talking about.
9. A historical sketch of the Society of American Florists from its organization to date, including officers for each year and lists of essays read at each meeting, with other information of interest.
10. A similar historical sketch of the American Association of Nurserymen.
11. A similar historical sketch of the American Carnation Society.
12. A similar historical sketch of the American Seed Trade Association.
13. Similar historical sketches of the Florists' Hail Association of America; of the National Chrysanthemum Society of America; of the Florists' Telegraph Delivery Association.
14. A complete list of all National and Local Trade Organizations, with names and addresses of principal officers, time and place of meetings, etc.
15. Statistics of Commercial Floriculture in the U. S. from the last census.
16. Statistics of the Nursery Industry in the U. S. from the last census.
17. Statistics of Seed Growing in the U. S. from the last census.
18. A list of Leading Horticultural Societies, with name and address of the Secretary of each.
19. Full information about Express and Postage rates on plants, shrubs, trees, seeds and bulbs.

No less than 270 pages of valuable reference matter in compact form, and all UP TO DATE.

PRICE $2.00 POSTPAID.

AMERICAN FLORIST CO.,

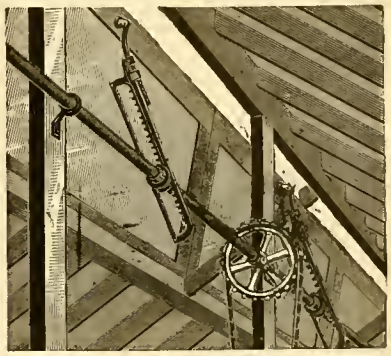
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BROTHER

FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

J. D. GARMODY, Evansville, Ind.

LITTLE'S ANTIPEST.

A

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

BY THE

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,

291 AMITY STREET,

FLUSHING, Queens, Co., N. Y.

When writing mention the AMERICAN FLORIST.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.



Pittsburg, Pa.

Trade continues fair; the last week or more of fine weather has warmed things up and the bedding plants have been pushed to the utmost. The bedding stock in the markets is poor. I hear that some of the growers are keeping stuff back until the cheap, inferior plants are disposed of, as good prices cannot be obtained with so much inferior stuff in the market, which sells for little or nothing. At the same time the growers seem satisfied, and all say that the demand has been much greater than anticipated.

Work has been rapidly pushed in the parks and another week will find nearly everything planted. Little planting being done previous to the middle of the first week in June, everything came in a rush.

The retail stores have had a very fair week. B. A. Elliott Co. and A. M. & J. B. Murdoch had the decoration of the Monongahela House for the general freight agents' annual convention; it was quite an elaborate affair. The plant decoration was done by the firm first named and the cut flower by the latter. Messrs. A. M. & J. B. Murdoch have also been quite busy with several weddings. Patterson Bros. have also been quite busy.

F. Burki left for Europe Saturday, June 16, hoping to return about the first week in August.

Herbert, youngest child of Supt. A. W. Bennett, of the Bureau of Parks, died Friday, June 15, aged 13 months.

The S. A. F. convention in Atlantic City is the talk of the boys, and if all go that are talking about it the attendance from this vicinity will be large. A. J. E.

Would come through Quick.

A daily paper gives a vivid description of the beautiful sights to be seen at the local market, and eventually drops into an attempt to instruct as well as entertain. A sample of the instructive items follows:

One dealer had three or four bushel boxes of seed potatoes for sale at 40c each. The potatoes were covered with sprouts two or three inches in length, but the dealer proudly explained that they would come through the ground all the quicker with the sprouts on.



Mention American Florist.

Standard Flower Pots.

10 per cent. off for cash with order. Special discount on large orders. We carry a large stock on hand of good strong pots.

PRICE LIST OF STANDARD FLOWER POTS.

1½ inch pots, per 100	$ 3.00	6 inch pots, per 100	$22.00		
2 " "	3.25	7 " "	35.00		
2½ " "	3.50	8 " "	50.00		
2½ " "	4.00	9 " "	75.00		
3 " "	5.00	10 " per 100	10.00		
3½ " "	7.25	11 " "	15.00		
4 " "	9.00	12 " "	20.00		
5 " "	13.00	14 " "	40.00		
		16 " "	75.00		

Address HILFINGER BROS. POTTERY,
. . . FORT EDWARD, N. Y.
August Rolker & Sons, 136 & 138 W. 20th St., New York City, New York Agents.



"Proof of the Pudding"

TOLEDO, OHIO, May 24, 1894.

LOCKLAND LUMBER CO.,

Gentlemen:—The Cypress material I purchased from you for constructing my ten new greenhouses was in every particular satisfactory. When I need more you shall have my order.

Respectfully yours, GEO. A. HEINL.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest **CLEAR CYPRESS** used.

For circulars and estimates ADDRESS

LOCKLAND LUMBER CO.
Lockland, O.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Potterv Company,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

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GEORGE MESSINGER, Manager. East Brookfield, Mass.

Crabb & Hunter,

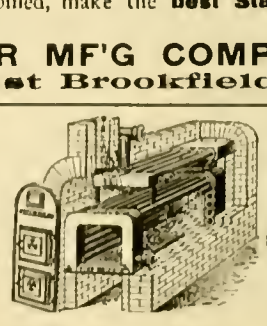
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Also Dealers in OIL BURNERS, and Agents for Snell's Hydraulic System of using Oil for fuel purposes. *No odor,* and ⅓ to ½ cheaper than coal.

509 Madison Ave., GRAND RAPIDS, MICH.

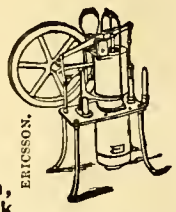
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ECONOMICAL
Water Heaters
For GREENHOUSES.
Send for catalogue to
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WATER
For Your GREEN HOUSE, ROSE HOUSE, NURSERY,
Conservatory, Lawn, House, Garden, Stock or any other purpose.
Send for Illustrated Catalogue
OF THE
DE LAMATER-RIDER AND DE LAMATER-ERICSSON
PUMPING ENGINE.


ERICSSON.

HOT-AIR PUMPING ENGINE.

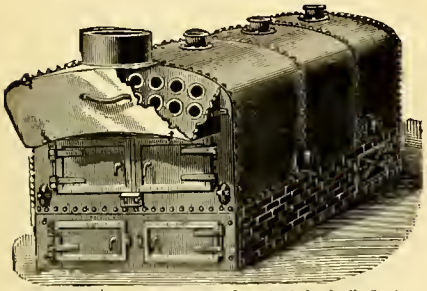
PUMPING ENGINE.

Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.


RIDER.

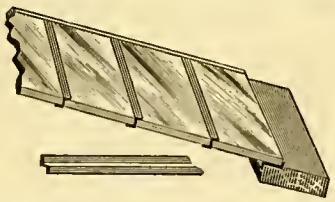
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IMPROVED
Greenhouse : Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

IMPROVED GLAZING.



GASSER'S PATENT ZINC JOINTS for butting glass makes greenhouses air and water tight; also prevents sliding and breakage from frost. Does not cost as much to heat a house glazed with the joints, thereby saving enough in fuel to more than pay the additional cost of glazing. The leading florists of the country are using them. Write for circulars with full particulars and price list.

J. M. GASSER, FLORIST,
Euclid Avenue, CLEVELAND, O.

THE CHAMPION
Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

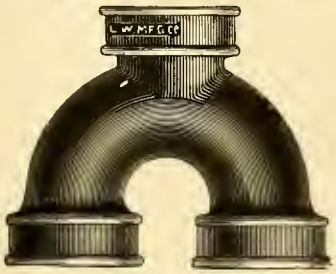
Do not be deceived by Inferior Glazier Points, but use only

THE E. J. VAN REYPER "PERFECT" GLAZIER POINT

Manufactured by the
ESSEX HEIGHTS FLORAL CO.,
BELLEVILLE, N. J.

Greenhouse Pipe and Fittings.





Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

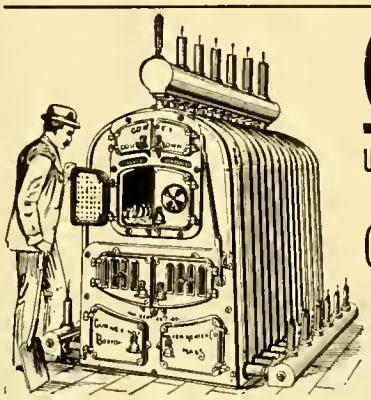
Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST.

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.
WRITE FOR ILLUSTRATED CIRCULAR.



Gurney Double Crown Hot Water Heater.

Gurney Hot Water Heaters AND Steam Boilers.

UNEXCELLED FOR GREENHOUSE REQUIREMENTS.

Send for Greenhouse Catalogue.

GURNEY HEATER MAN'FG CO.
163 Franklin Street (Cor. Congress),
BOSTON, MASS.

SELLING AGENCIES { JOHNSON & Co., 71 John St., New York and vicinity.
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H. M. HOOKER COMPANY,
57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS,
FOR GREENHOUSES.

Write for latest prices.



Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,
And for any and every purpose for which a hose can be applied.
Sizes, ⅛-inch to 42 inches diameter.
The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole Mf'rs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York.
J. C. VAUGHAN, Agent, CHICAGO.



Evans' Improved CHALLENGE Ventilating Apparatus.
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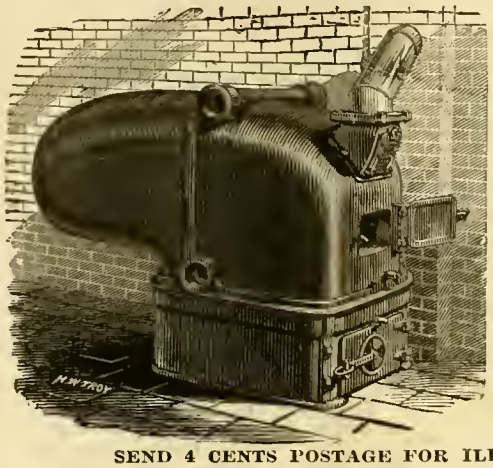
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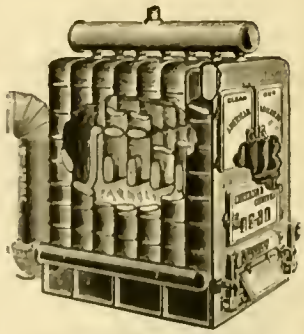
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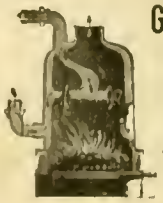
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THE LENOX HORTICULTURAL SOCIETY of Lenox, Mass., will hold their first annual exhibition Sept. 4-6. The classes to be competed for include plants, cut flowers, fruit and vegetables. Copies of the schedule may be obtained from the secretary, A. H. Wingett, Lenox, Mass.

LITTLE ROCK, ARK.—The State Hort. Society met here May 23, 24 and 25. The session was a very interesting one.

Arrangement of Flowers.

VII.

ARRANGEMENT OF VASES.

Vases filled with longstemmed cut flowers constitute the largest part of the house decoration of the present day. The banking of mantels with solid cut flowers is not practiced to the same extent as was the case in former years. For small or medium sized reception or drawing rooms and parlors especially arrangements in vases are in far better taste than heavy banking, which latter, however, in its proper place is well enough. In the present article we shall confine ourselves to a few remarks on vase arrangement in a general way.

What holds true of floral arrangements of all kinds is particularly to be observed in vase arrangements, namely avoid overcrowding. The number of flowers to be placed in a vase will of course depend on the variety used and also on the size of the vase.

In a majority of cases where your order calls for a house decoration you will find at the house great numbers of vases and other receptacles for holding flowers, often many more than sufficient. But although these might be, and probably are, in great diversity of style and shape, yet we find the larger portion very often totally unfit for the purpose. The most costly, and on that account most highly prized by their owners, are generally the worst offenders. You may find that a large and tall vase has an opening so narrow that you may have great difficulty to squeeze 3 or 4 stems of lilies into it, when it should, in order to give the proper effect in accordance to its size, hold about a dozen. Another style again will have an opening of six inches or more but so shallow that it will not admit of the use of large and longstemmed flowers, and short stemmed material, on account of its height would of course be worse than useless. Such vases may be very handsome mantel ornaments but are totally unfit for our purpose. In such cases we should insist upon being allowed to substitute some more suitable forms. Sometimes we are privileged to do this, but at other times again the lady of the house will not listen for a moment to the suggestion, and at the same time expects to have her vases filled effectively.

In such cases the vase with a large opening can be treated in a simple manner. Moss up a flat wicker dish of the required size and arrange your material in this in such a form as to carry out the effect of its being placed loose in the vase. Then place this arrangement in the vase. If skillfully done and the foliage dropped over the rim, not even an expert would know the difference. We frequently have to resort to either filling the vase itself with moss, or employ a flat form to set on top, as above indicated, in other forms of ornamental vases, particularly those of bronze, which, though roomy and of sufficient depth, do not always hold water. If the vase with an extremely small opening is sufficiently large and massive it can be treated the same as above stated, only be careful to avoid the danger of a top-heavy effect, as generally such vases are very narrow at the top. If the vase is very tall and of slender form from bottom to top you will have to do the best you can by placing the stems of the flowers in the opening.

The first step we take before we commence work is to collect all the different vases to be used in a decoration and assort them according to size and style adaptable for the class of flowers to be used. Large and tall vases are most suitable for the larger varieties of roses such as Beauties and hybrids, lilies, chrysanthemums, pæonias and the like. Medium to small sizes are best suited for the general run of roses, carnations, tulips, narcissus, Dutch hyacinths, etc. Such flowers, however, as lily of the valley, Romans, violets, sweet peas and kindred forms, require a low vase or dish.

But size alone does not always indicate whether or not the vase is just the proper thing for a certain kind of flower. Some rather small vases have a very spacious opening and if filled with as many flowers as these will hold, will look rather out of proportion. Take for instance a vase of Harrisii lilies.

The vase we illustrate is about fifteen inches high and of a style which will admit of a generous bunch. It holds 18 stems without crowding. These are arranged for a mantel or the corner of a room, the flowers being arranged for front and side view only. Now this same number of flowers if placed in a taller and more slender vase would give a decidedly top-heavy effect. A vase for displaying a couple of dozen long stemmed Beauties should be taller; that is, if the flowers are cut with stems 2 feet or more long. For medium length of stem, however, a vase of the height shown in the lily arrangement will answer. Choice specimens of Beauties, as well as hybrids, make a fine effect if placed in suitable vases holding but a few blooms.

The smaller forms of roses are suitable for the great variety of such vases as are generally found in a house, or if these are lacking you will furnish them from the stock you have on hand for such purposes, the best of all being a plain white glass vase in suitable sizes. Our second illustration shows such a vase filled with mixed roses. We purposely show this arrangement in a mixture of such varieties that harmonize in shade, as being a form often put up when the selection of stock is limited. In a first-class decoration, however, we rarely ever use more than one variety in a vase. Where we confine ourselves to but one kind we must not over-

look the great importance of having the color of the flower harmonize with that of the vase.

The vase of carnations illustrated shows a bunch of 50 Grace Wilder. Carnations, if cut with plenty of buds and on long stems, look best if set in a proper vase without any addition other than a few branches of their own green if procurable.

The last illustration is of a bowl of sweet peas. As stated above the receptacle to hold these must be low. A few branches of their own foliage are an excellent addition, but unfortunately our growers don't always take the trouble to add a few pieces of foliage to each bunch, so we have to use a frond or two of adiantum; but don't let us use it too heavily.

We shall make some further notes on vases later on when we reach the subject of decorations for various purposes, and reserve also the arrangement of orchids in vases, and other forms, for future articles.

HINTS ON STORE MANAGEMENT.

We stated at the very start of these articles that in order to become an accomplished and successful "maker-up" you must possess a thorough love for your business. But this is not the only requisite, unless your services are required in a large establishment where arrangement is your only occupation. In the great majority of situations either as an employe, or of course, as an employer, you will also act as salesman.

The late Chas. Reissig used to say that a good salesman was worth half a dozen artists. His estimation of the value of the former as compared with the latter may have been exaggerated, but it is nevertheless true that the salesman plays an all important part in a successful business. A first-class salesman, the same as the artist, is not made but born. And yet a thorough training will produce a pretty fair article of both. Deportment is largely a matter of training, and so is that all important requisite, the correct judging of mankind which is acquired through long and observant experience, but good address and a ready tongue are the gifts of nature. But one of the most important requisites of all is a thorough control of your temper. Unless you are blessed with a pretty large stock of patience and are prepared at all times to bottle up your temper with a patent stopper you had better stay away from behind the sales counter.

We will suppose it is a very busy day with you. You have a number of large orders to fill and growers upon whom you depended for certain stock have disappointed you by sending in a short supply. You have been obliged to go out and skirmish for the needed stock and with but meagre success. You return to your place of business having lost much valuable time and proceed to rush things in order to catch up, when there enters a lady customer who will be waited on only by yourself. It takes her just 25 minutes to select two rose buds out of an assortment of some 500, every one of which has been critically examined and in the process of which several were broken and the balance not showing a great improvement by handling. The price previously ascertained is $1.00 per dozen, 2-12 of a dozen is 17 cents, allowing you the extra fraction of a cent for your trouble! She sweetly hands you a $20 note to change and "won't you please put the flowers in a nice little box?" Being very considerate she proposes to carry them home herself and save you the trouble of sending! Now, if under those circumstances you are still able to politely bow your customer out of the door and with your sweetest smile extend an invitation to call again, then you may be sure that you are, as far as patience goes at least, well fitted for your calling.

A well known florist used to say that the secret of success as a salesman was ability to size up a customers' pocket book. In how far he might have been correct we are not prepared to say, but that there is more truth than poetry in this remark there is no denying. Who has not had some experience like this for instances: A couple of gentleman will enter your establishment to order something for a funeral. Appearances are sometimes deceptive and in this instance it may be very much so. You "size them up" to be good for about $25 and show something for that amount that is "the correct thing." The sale having been effected and the bill paid; your customer incidentally drops the remark that flowers must be getting very cheap, he being fully prepared to put up twice twenty-five dollars for such a design. You will then be very apt to feel annoyed with yourself. On the whole it is generally safer to err the other way. If the price is too high you are able to show something less expensive.

But before fixing the price, important as this may be, the salesman's ability must be demonstrated in another direction, equally, or even more important, and that is not to sell an article which the buyer wants but one he does not want, providing the former is hard to obtain, and the latter you have in stock in great abundance. Of course the very best salesmen cannot do this always. Some buyers manifest a decided mind of their own and you will find it a hopeless task to convert them. If a lady customer asks for violets you may not be able to sell her Harrisii lilies but if she desires La France roses and you have not got them in stock, and you know it to be difficult to obtain them on the market, you must demonstrate your ability by selling some other pink rose, and allow her to depart with a purchase of Mermets thoroughly satisfied that these after all are just what was needed.

In a general way we find our dealings with men entirely different from those with the gentler sex. As a rule a man knows the value of time and he also knows about what he wants and what amount he desires to expend, and if he don't he generally trusts to your honor as a business man to do the right thing. And as long as you treat him in a business way you will have but little trouble. Of course there are exceptions to all rules. But most of our dealing are with the ladies and bless their dear hearts, some of them will try the proverbial patience of Job. You may divide them into several classes.

First there is the professional shopper who visits every flower store within a radius of several miles before she buys 25 cents worth. She expects to be shown every flower in your establishment and is not at all backward in tumbling your stock about as though so much hay. This nuisance you are warranted in giving an occasional snub as her custom generally amounts to little.

The next is the member of the "would-be" aristocracy, who wishes to decorate her house, let us say for a reception, just like Mrs. Upper Ten, but unfortunately the pocket book is insufficiently supplied. In order to come somewhat near an acceptable figure you have to cut here, and make another cut there, and by the time you have agreed on the price and executed your job, it won't be at all like the one your customer had in mind, and dissatisfaction follows. This class is the hardest of all to deal with, and if you manage to make a profit out of them and at the same time give perfect satisfaction you may consider that you have solved a most difficult problem.

The third-class is the member of the "shoddy" aristocracy. An easy and most profitable victim. Be sure to furnish something showy. Generally expense is of but little moment and good taste of less. So long as you are able to furnish something more elaborate and gaudy than was ever seen before you are all right.

The fourth is the lady in the truest sense of the word. She is a woman of refinement and not infrequently she is able to give you an object lesson in the arrangement of cut flowers in a room that you may find worthy of grateful study. She will leave an order with you for a decoration, either trusting the adjustment of the cost to you, or tell you not to exceed a certain price. After the order is given and you commence work she will never interfere with suggestions of her own. She may have some favorite vases which she prefers to fill in her own way, and if she has she quietly goes to work and suits her own fancy. If her arrangement is not entirely in harmony with your own ideas you had better keep the fact to yourself. Never assume that because you are a florist you know it all and that nobody outside of the sacred precincts of the craft is worthy of consideration as regards flower arrangements.

The Hardiness of Plants in Northern as Compared with Southern Exposure.

[Read by Mr. J. C. Witten before the St. Louis Florists' Club.]

The location of plants with reference to the sun, shade or prevailing winds, is a subject much studied by the cultivator. The comparative effect of direct and oblique rays of light upon plants, is noticed particularly by all who cultivate them under glass, and, to the practical florist, it is unnecessary to mention the important relation which this bears to the slope of the roofs of greenhouses, the location of hot beds, etc.

To the cultivator of out of doors plants also this subject is one of vital importance, and has been noted and discussed by the horticulturist since the earliest time. The observed advantages of shelter from blasting winds or glaring sun first suggested the selection of a proper exposure for plants, and the idea of artificially supplying these conditions, developed the use of pits, forcing beds and, later, of greenhouses. Methods of accelerating or retarding the growth of plants have been handed down for centuries, for our adoption and improvement. Even the luxurious Romans, as might have been expected, however, of a people who lived so much for the stomach's sake, are said to have made quite progressive steps toward producing a succession of vegetables and fruits, by supplying or withholding light and heat.

In consideration of these facts, it is evident that the growth and hardiness of plants depends upon various surrounding conditions and environments. The prevailing winds, cloudiness or sunlight, altitude, proximity to bodies of water, color of soil and many other conditions, help to determine the exposure best suited to a plant in a given locality. For this reason, authorities upon horticultural methods,



VASE OF LONGIFLORUM LILIES.

ARRANGEMENT OF FLOWERS

referring to various localities, differ in their statements as to the proper aspect for a given plant.

In Lindley's valuable writings upon horticulture in England, great stress is laid upon the advantages of training fruit trees upon the south side of a wall, for protection against cold. The author cites ample proof of the beneficial results of this practice, and gives logical reasons why, in England, it is the most successful plan. Trees there need the heat of the sun as early in the spring as they can get it. This wall protects the tree from cold, piercing winds and also absorbs heat, which it gradually gives off during the night, thus helping to maintain a higher and more uniform temperature. By these means, the fruit is not only earlier, more abundant, of higher color and better flavor, but the growth of the tree is more perfect, and the wood more completely ripened off, to withstand the rigors of winter. The same exposure is also selected for the vine and many other plants, with similar results.

In this connection, we must consider that England has a very moist climate, that winter fogs prevail, and that instead of the blistering spring suns which scald our trees, they experience only a few hours of hazy sunlight, during the middle of the day. It is especially interesting to note, that on account of this very cloudiness, England cannot grow Indian corn, a crop which can be matured in every state and territory in our Union. Despite this lack of summer heat, however, many plants, not hardy in the vicinity of St. Louis, are wintered in English gardens with perfect safety.

Early horticulturists in America met new and changeable conditions. Instead of the mild, humid winters and damp, cool summers of Europe, they found the winters so clear and cool as to freeze many of their plants, and the spring and summer suns so persistent and hot as to scald many more. The reasons of these failures had to be studied, and new methods of culture and protection, as well as new and acclimated strains and varieties, had to be introduced, to meet these changed environments. In our own country, as cultivation moved westward, similar difficulties were met and are still being overcome. In many of our western states, where the early settlers despaired of having fruits and ornamental plants, horticulture in diversity is now very successfully carried on. Acclimatization and production of new varieties has had much to do in working these changes, but the study of proper location and, in many cases, the planting of shelter belts, and otherwise modifying the exposure of plants, has also been an important aid to success.

In localities where the winter temperature is generally uniform, and where late spring frosts, or scorching summer suns are not prevalent, a southern exposure is no doubt preferable for most plants. Where these conditions are reversed a northern slope is to be chosen. An eastern or a western slope may sometimes be preferable, especially when prevailing winds from these directions are tempered by passing over contiguous bodies of water.

The peach belt of Michigan is a good example of the influence of a body of water. A strip of country, which receives the lake breezes, is admirably adapted to the production of immense crops of peaches, while a few miles away from the direct influence of the lake, with similar soil and in the same latitude this fruit cannot be successfully grown.

Quite generally, throughout the western and inland southern states, a northern aspect seems preferable for many of our fruits and ornamentals. In these localities, away from ocean fogs and moisture-laden breezes, the effect of a clear and burning sun, accompanying or following a very low temperature, is only too well known. This is especially true, during late spring cold snaps, which frequently occur after growth has begun. In some localities, the frequency with which buds are stimulated to growth during warm spells in winter, and then frozen after they have unfolded their protecting scales, causes much damage, particularly on southern slopes.

It is a well known fact that winter buds may put out a certain stage of growth, without the aid of root action. The botanist has ascertained that, during the growing season, the plant stores up a supply of starch, most abundant near the buds, to support the next spring's growth, until the leaves are developed to assimilate food. There are a great many practical proofs of this fact. Trees cut down in winter often leaf out, or even bloom, the next spring, grow until this stored up food is exhausted and then perish. Twigs of the plum, and other early bloomers, may be cut from the tree in winter, and forced into bloom, by placing them in water and giving them light and heat. A branch of a tree, or vine, if drawn into a warm room, through a window, may be made to start growth, or to bloom, while the rest of the plant is frozen and dormant.

Right along this line, the practical florist has taken a step in advance of many orchardists. Even yet, many successful and wide awake fruit growers mulch heavily around each tree, in midwinter to retain the frost in the ground about the roots, as late as possible, under the impression that it will retard the blooming of the tree, and consequently lessen the liability of injury to the blossom, by late frosts. The florist proves the fallacy of this scheme, by planting a lilac near the greenhouse and pulling the branches indoors in winter, and forcing them into bloom, while the main plant is frozen.

Another advantage of northern over southern exposure, where fluctuations in winter temperature are common, is that plants which receive the least direct sunlight, thaw more gradually in a sudden change from cold to warm weather. The difference in effect of gradual and rapid thawing is well known. Cabbage may be wintered in our northern states by placing them, head down, right in the

field, and covering the heads to the depth of a few inches with soil. The earth freezes firmly, to a depth much below the cabbages, but the covering of soil prevents rapid thawing and consequent injury. Discarded heads, left uncovered in the same field, become a brown mass of decay. I have wintered beets and turnips in South Dakota, in this same way. As far north as Maine, potatoes plowed from the ground in spring are occasionally found to be in perfect condition after being subjected to the rigors of a northern winter.

In some of the prairie states, plantations of young trees may be commonly seen, in which almost every unprotected specimen shows a decided tendency for its north side to outgrow its south side, thus throwing the tree out of balance, and more fully exposing the south side of its trunk and branches to sun scald. For this reason, planters often lean their trees to the south or southwest, in setting. This enables the foliage to better protect the tree from southern sun and hot winds. The tree puts out its own umbrella, so to speak. Even when trees are set in this manner, the excessive growth of the northern branches will soon bring the tree into balance. Planters who began by planting shelter belts on the north side of their fruit and ornamental grounds, have changed their tactics, and are now planting them on the south side.

I have in mind some Vladimer cherry trees which illustrate the effect of scalding suns and hot winds, as compared to the freezing effects of northern exposures —one spring, in a South Dakota orchard, the trees of this variety had their southern branches apparently killed. These branches had the appearance of having been scorched by fire, until there was little sign of life in them, except toward their bases. The northern branches began growth and set fruit at the proper time. Gradually the half dried buds on the south side began to open, near the trunk of the tree first. By the time the last flowers opened on these parts the fruit on the north side was about full grown. During the season these dried branches put out some growth, nearly to their tips, but the trees remained much out of balance. An Iowa orchardist, noticing them, said he had seen similar cases in his state.

Similar conditions exist in our own neighborhood, in a much less marked degree. During the past two seasons, fruit trees, with us, have set but very meagre crops. In each case, the prime cause of failure has been an early swelling of the buds, followed by a cold snap. The present season is very marked in this respect. With us, only two pear trees have set anything like a crop of fruit. Both of these are protected on the south and exposed on the north. One of them is trained low against the north side of a wall, and is growing a fair crop of fruit, while taller trees beside it, which project their branches above the wall, are entirely without fruit. The only lilac I noticed the past spring, which had not had its blossom buds killed, was completely overshadowed by evergreens on the south, with an opening to the north.

With us, however, the wood growth of most trees and shrubs seems to be quite generally symmetrical in specimens equally exposed on all sides, to climatic conditions. While a northern exposure, in our locality, is no doubt better suited to the growth of a few species, I think its chief advantage is in retarding the flowering of very early bloomers. Where bulbous plants are set in raised beds, which curve from center to margin, the plants on the north side flower later. They are less liable to injury from frost, not only because they flower later, but because they thaw gradually, without the influence of direct sunlight, after a cold spell. This is also a point of vantage to the grower of a succession of blooms for the trade. The flowering season of a certain variety may be thus prolonged, just as the strawberry grower prolongs the season of this fruit, by planting for an early crop on a south slope, and for a late one on a north slope, and mulching the latter.

Young plants, such as are handled by the trade, are much more sensitive to climatic conditions than are old and established plants. For this reason the best opportunity for study along these lines, lies with those who grow this class of stock.

Finally, I have not presented these stray thoughts with the view of drawing definite conclusions to apply in all cases, but merely to suggest a few points for thought and observation. I believe if there is any class of men, who are awake to the requirements of their profession, it is the florist and grower of plants for the trade, whose success depends so largely upon their supplying the proper conditions to their plants. To them, no doubt, close observation along these lines is essential, and the methods adopted by each depend upon his environments.



Coming Exhibitions.

TORONTO, ONT., July 18-19. Annual flower show Toronto Electoral District Society. J. P. Edwards, Sec'y, 17 Washington Ave.

BOSTON, Sept. 5-6. Annual exhibition of plants and flowers Mass. Hort. Society.

CHICAGO, Nov. 3-9. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.

NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex MacLellan, Sec'y, Ruggles Ave.

BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.

PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.

ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.

INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.

PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L. B. 375, So. Denver, Colo.

WORCESTER, MASS., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.

TORONTO, ONT., Nov. ——. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.

MONTREAL, Nov. ——. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.

PROVIDENCE, R. I., Nov. ——. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.

SPRINGFIELD, MASS., Nov. ——. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 John St.

MILWAUKEE, WIS., Nov. ——. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.

HAMILTON, ONT., Nov. ——. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.

Chrysanthemum Notes.

The plants that were propagated during April and early May, or earlier, have most of them now made their first break, of their own volition, it might be said, and those that have not, or any others that you intend to grow to two or more flowers, if they have not yet broken into the desired number of shoots, should be stopped at once. By stopping, we mean to cause the plant to stop its growth to a single stem, and break into two or more shoots as desired. In wandering around among the growers we see, in spite of all that has been written and said upon this subject, that many accomplish this by carelessly breaking off two or three inches, and sometimes more of the stem, from the top of the plant. This must give the plant a serious check, and often cause it to send out quantities of suckers from the root, and, besides, when this manner of stopping is practiced the eyes at the top that are left are practically in a dormant condition, and will take quite a little time to swell and break, in fact sometimes so dormant that only the very top eye will break into a growth that has any rigor. The proper way to stop the plants is to break out just the end of the growth, the best way that we have found to do this, is to hold the top of the plant between the thumb and forefinger of the left hand, and, spreading the developed leaves of the end with the thumb of the right hand, rub out the tip with a careful movement of the right thumb. The advantage of stopping a plant in this manner can be easily seen, for the wood left at the top of the plant is green and soft, and the shoots will make their appearance in three or four days, while the roots have received very little check, perhaps none at all. We have often noticed that where a plant is cut back to any extent it is very apt to throw a potful of suckers, but where it is properly stopped no suckers appear, and the plant shows in no manner that it has suffered any check at all.

If you have any plants left after setting the benches don't throw them away. Everybody that has any retail trade, and the majority of us have a little, will find that there will be a demand in the fall for small plants in from 6 to 8-inch pots, that can be sold from 75 cents to $1.50. So, if you have any planted that you didn't use, try them in the way advocated by our friend Scott in his seasonable notes last summer. He says "to plant them in the benches in the houses, never outdoors, and stop them two or three times as may be required," but if they are now eight or ten inches high they had better be cut back to about four or five inches from the ground. Don't check a plant, however, at both top and bottom at the same time, that is don't cut off the top at the time you bed it out, but wait until the roots are established in their new home, then stop the plant where you desire. He then says "they should be potted up about September 1;" before the first of September we think would be better, about August 20, just before you go to the convention, or immediately after your return, and then they will have plenty of time to get their roots well established before the buds begin to set, and they will be covered, if disbudded a little, with very fine flowers when you want to place them on sale.

Too late potting is as often the cause of one-sided or deformed flowers, as anything else, although the chinch bug, if he gets a chance, is an adept in this line, but he is very easily gotten rid of when the plants are in the houses by fumigation.



VASE OF MIXED ROSES.
ARRANGEMENT OF FLOWERS.

Speaking of insects, look out for the aphis now and don't allow them to get a strong hold on your plants in the benches, but smoke until you have them under subjection, and keep them down all summer, for you must stop fumigating when the buds begin to show color, so smoke often now.

ELIJAH A. WOOD.

West Newton, Mass.

Miscellaneous Seasonable Hints.

Many of you will be very busy now planting the chrysanthemums and roses, and many will be busy fixing up the benches before they are planted. Don't use 1-inch boards if you can possibly help it. Use 2-inch plank and six inches wide; that is a convenient size to handle and gives sufficient drainage to a bench, which is an all-important point to be considered. If built especially to receive roses, chrysanthemums or carnations from one-hall to three-quarters of an inch is none too much space to leave between each plank, and if the benches are built for standing pots on it is just as well to leave half an inch space between the board. You are never sure when you will need that bench for a crop of "mums" or carnations, or something that needs 4 or 5 inches of soil. If used for the latter purpose it is all ready. If for plants and sand is needed spread over the bench. The spaces between boards can be quickly stopped up by a little sphagnum moss. You will perhaps have noticed that where the edge board is nailed fast on to the bench board there is where a good deal of rotting takes place. It is much better to put narrow strips 1½ inches thick between the edge and bench board, say every two or three feet, and nail through the strip. This gives you additional drainage, and saves much rotting. Let me repeat once more that on all new benches, and in fact at all parts that come together a heavy coat of water lime thoroughly rubbed in with a whitewash brush will double the life of your bench.

Don't forget when you are clearing out your houses to pot up a few plants of those things you want for stock and which don't lift well in the fall. A few of each is enough, unless your business calls for a large quantity—such plants as lemon verbena, lantanas, heliotrope and others. Plunge them out of doors with your other plants in the frames, and they will take up but little room. Select what fuchsias you want for stock and keep them growing indoors till middle of August. Then they can be ripened off for a few weeks out of doors.

A plant that is always in great demand with us for both filling large pots as well as being invaluable in boxes, vases, etc., is Nephrolepis tuberosum. Some may consider this not nearly as good as others of this beautiful genus of ferns. It is, however, much the most useful and most difficult to buy in the right size. To increase your stock of it begin now by planting a few dozen plants of it on a bench in a house that is not less than 60° in the winter months; give it 5 or 6 inches of rich light soil. If one-third of it is well rotted refuse hops so much the better. Its spreading wiry surface roots will send up a number of young plants, and can when rooted be easily detached and potted. I never saw good plants of this most useful fern go a-begging for a buyer. If this is done at once the young plants will be the right size for next spring's business.

In this torrid time with all the shade and no fires your cattleyas and lælias that are on blocks and baskets will need a great deal of water, that is, those that are now making their growth. Great orchid growers, as are those of Europe (especially Great Britain), who write on orchid culture have not written for our climate, and therefore some allowance must be made for our much hotter and dryer summers and extra fire heat in winter. It is almost impossible with the hose to thoroughly water the above mentioned when in baskets or on blocks, and it is time well spent, if you wish to have the best results, to get a tub of water and give them a bath of a few moments twice a week. Dendrobiums, particularly nobile and Wardianum, that have nearly made their growth should be removed to a lighter house that they may gradually ripen up their growth. Cœlogyne cristata will do finely out of doors, providing it does not get direct sunlight on it, and while growing should get a copious syringe every day.

If a long hot dry spell is coming and sweet peas are an important crop with you, remember they like plenty of water and are soon attacked by spider. Mulch between the rows with long straw manure; you can then water them much better and it will do more good, and don't forget to syringe the vines whenever you water.

WM. SCOTT.

Foreign Notes.

Rhododendron Smirnowi, flowered for the first time at Kew last year, is a striking dwarf species from the Caucasus. The plant at Kew is described as only 10 inches high, yet nearly 2 feet in diameter, the leaves and flower trusses being about the same size as the ordinary garden types. The leaves have a thick layer of pale brown felt on the under side, a peculiarity heretofore confined to the Himalayan species. The flowers are wide and shallow, three inches across, with frilled edges; color pale rosy purple with reddish spots on the upper petal. It is perfectly hardy in England, but we believe has not yet been tested here.

Two new cyatheas, C. pygmæa and C. Mastersiana, recently received first-class certificates from the Royal Horticultural Society. The first named is of dwarf growth, attaining a height of about 3 feet, and forms a very graceful head. Mastersiana is taller growing, with elegantly arching deep green fronds. Both are natives of South America.

Heliconia illustris rubricaulis, recently certificated by the Royal Horticultural Society, is a variation from the species having bright carmine mid-rib and veins, and occasional flecks of pink in the foliage. It makes a very striking decorative plant, and is said to be more robust than the type.

Adiantum Clæsianum, recently introduced from South America, has short fronds divided into broad pinnæ, pale green in color, blotched and radiated with white. It is a handsome fern, and likely to prove useful.

Rhododendron jasminiflorum roseum is a new and graceful Malayan variety, which has flowered at Kew. The type has thick, leathery leaves in whorls, and terminal umbels of from three to ten pure white flowers; this variety roseum blooms much more profusely, having as many as eighteen flowers in an umbel, and the color is soft carmine rose. It is a native of Perak.

Among new roses of 1894 is Lorna Doone, a Bourbon sent out by Paul & Son. It is a deep crimson shaded with

scarlet, full and double, and is expected to prove a valuable sort for bedding.



Carnation Notes.

In planning a house for next season the question may come up, "Shall I use solid beds or benches?" With many this is no question at all, for they never give solid beds a thought. But, honestly, isn't it a bit annoying to find when you clean out your houses that the benches need renewing, and are not these benches quite an item of expense? This side of the question alone should make one willing to try the experiment of solid beds.

In looking at a question of this kind the first and principal object we are aiming at is to have extra fine flowers. In my soil there is not any question but that I can get better flowers and better stems from the solid beds than I can from the benches with most varieties. To get the best results we do not plant them very close, keep them well tied up without crowding the plant together, keep the beds clean from weeds, and about twice a season put on some pure bone, working it well into the soil. In addition to this every two weeks the plants are carefully disbudded.

Another very important point in carnation culture is to have the crop come in at the proper time, that is, the heavy crops, for nearly all carnations will make heavier crops at certain times. There is less of this cropping from the solid beds than there is on the benches, but the flowers are a little slower in coming, and to get the best results from solid beds they should be planted from August 15 to September 15, not later than the last date, so that they get properly started by the time you want flowers. Planted at this time and handled properly as to temperature, which should be regulated according to the condition of the plants, they will produce their first heavy crop about the holidays, and that is generally about the time you want them. You can in a solid bed hold your crop better than you can on a bench, and on a bench you can force it better for a certain time or occasion, so that it is six of one and half a dozen of the other on this side of the question.

There is still another important feature in carnation culture for profit, and that is to get a good big crop of bloom from your plants. Here I think the bench has a little the best of it, at least between the months of October and May, the time when carnations are in the most demand. But the difference is not enough to make up the extra expense of benches.

Occasionally we find a variety that will do much better on a bench than in solid beds. A striking instance of this is Aurora. Last season planted in solid beds it was almost poor enough to be called a failure; this season planted on benches it is so fine that prominent carnation men who have visited here did not know it to be Aurora. I said in a former note that the benches were about ready to throw out, or rather the plants on them, but this bench of Aurora is an exception; it is full of flowers and buds now and gives promise of continuing so all summer.

Mr. Bridge in a former number of the FLORIST has championed the bench system so ably that it is not necessary to add anything more to it. He gives the whole secret of success in bench culture, and that is manure, manure and manure again. Start out with soil not less than one-third manure, give it a mulching of manure in January and again in March, and water occasionally between these dates with manure water. This method is a bit hard on the constitution of a plant, but then the forcing plant and the plant for propagation should be two separate affairs entirely.

In building or changing your houses this summer it may be worth your while to think over this and make up your mind to try a solid bed or two. Nearly all the growers around here are using solid beds almost exclusively, and are well pleased with the results. But possibly your soil may give different results, and it will be well to try the experiment on a small scale before adopting it. If you are successful with solid beds you will be in quite a few dollars on bench materials and have a much nicer and cleaner house.

ALBERT M. HERR.

Annual Rose and Strawberry Exhibition of the Massachusetts Horticultural Society.

This time honored show came off for once on schedule time, June 20 and 21. It is not often that the clerk of the weather arranges for joint maturity of both roses and strawberries on the exact date set by the exhibition committee six months previous, but this year he evidently tried to be agreeable. Roses vary somewhat in earliness according to soil and location, and for those growers with light soil and favorable exposure a few days sooner might have been more satisfactory, but for the majority of the exhibitors the date could not have been better selected.

The roses filled the entire upper hall, and more than one-third of the space was utilized by M. H. Walsh, gardener to J. S. Fay of Woods Holl, who has for the past two or three seasons been coming up to these exhibitions "loaded for b'ar," and has given the local rose growers a hard tussle in most of the important classes. The southern shores of Cape Cod and Rhode Island undoubtedly enjoy the best climate for outdoor roses in this part of the county. Other large exhibitors besides Mr. Walsh were James Comley, gardener to F. B. Hayes, C. M. Atkinson, gardener to J. L. Gardner, W. H. Spooner, Sumner Coolidge, J. Eaton, Jr., J. Kenneth Finlayson, gardener to Dr. C. G. Weld, Mrs. J. M. Clark, Mrs. E. M. Gill and D. F. Roy, gardener to E. S. Converse.

The blooms were shown for the most part in the flat green trays as heretofore, but a strong preference has developed among the exhibitors and others in favor of small vases, and it is probable that the days of green boxes are about numbered, and that they will soon follow the old chrysanthemum flats and enter permanent retirement. The only seedling shown was the fine deep colored Michel H. Walsh, which is now exhibited by Mr. Walsh for the second time, and fully maintains its excellent character. Among the newly introduced varieties that showed up well were Margaret Dickson, Jennnie Dickson, Crimson Queen, Brighton Beauty, James Brownlow, Gustave Pigneau and Souvenir de Alphonse Levallee.

Earl of Dufferin when perfectly fresh was good, but its tendency to turn purple told against it. Spenser, Duke of Fife and Capt. Haywood will have to improve greatly over their appearances on this occasion if they are to find any admirers here. Barden Job, a new hybrid tea shown by W. H. Spooner, is a semi-double of very brilliant color, but such a name is a heavy burden for a rose to carry through life. After all, the improvement in roses is not very pronounced, and it looks as though it might be a long time before the new candidates for popularity can excel in beauty and finish such old varieties as John Hopper, Souvenir de Wm. Wood, Mlle. Eugenie Verdier, Prince Camille de Rohan, Marshall P. Wilder, Duke of Edinburg, Prince Arthur, Eclair and Baron de Bonstettin, all of which were shown in wonderful perfection. Mme. Prosper Laugier, which has been rated as a rose of second quality, was represented by blooms which were pronounced by many to be among the handsomest flowers in the hall.

The display of orchids occupied the space in front of the stage in the lower hall. In J. L. Gardner's contribution were some nice specimens; Odontoglossum Pescatorei was the best plant of that variety in the hall; Cattleya Mossiæ and Dendrobium Dearii were also good. Edward Butler showed a grand Lælia purpurata of remarkable color and bearing seven flowers on the spike, also a fine Dendrobium alba sanguineum. The large specimen Cattleya Mendelli, Phalænopsis grandiflorum, Miltonia vexillarium and Selenipedium Wallisi from E. W. Gilmore were also worthy of note. The hard wooded ericas from J. L. Gardner's were fine healthy looking plants, considering that they had had to stand a temperature of 90° to 100°. Mr. Atkinson is most skillful with these difficult plants. From Dr. Weld came specimens of Boronia elatior, Rhyncospermum jasminoides and Anthurium Scherzerianum.

In the promiscuous classes of cut flowers there was an extensive display. There were eight or ten entries for the sweet william prizes. W. H. Cowing's collection of this old fashioned favorite included forty-six varieties. Other contributors were E. Sheppard, E. S. Converse, F. S. Davis, Bussey Institution, A. L. Cain and Dr. C. G. Weld. W. A. Coburn and E. Sheppard & Son showed fine collections of pelargoniums, T. C. Thurlow and O. B. Hadwen, pæonies, L. T. Seaver, pansies, M. T. Goddard roses and campanulas, Rea Bros., hardy perennials, R. & J. Farquhar, larkspurs, and several exhibitors showed wild flowers in profusion.

The strawberry section was remarkably fine, there being over one thousand quarts shown, and not a bad one in the lot. The wonderful new berry, The Marshall, won four out of five of the special premiums. Warren Huestis won the first prize with this variety, although its originator, Mr. F. M. Ewell, was on hand with one hundred quarts of it.

The attendance of gardeners and others directly interested was very large, and when chairman Woodford marshalled his committee and invited guests for lunch at the Tremont House he marched forth followed by a mighty host, but there was room enough for all.

Boston.

Outside of the rose and strawberry show the only event of the week to vary the dull monotony of summer was a little picnic party of a few of Mr. Ed Hatch's friends to his seaside cottage at Scituate. This took place on Boston's own special holiday, Bunker Hill day. One of the



VASE OF GRACE WILDER CARNATIONS.
ARRANGEMENT OF FLOWERS.

number was Mr. Alfred Dimmock of London, who disclaimed with much vigor any interest in the event commemorated by the day, but managed to enjoy himself thoroughly notwithstanding the somewhat embarassing questions raised by his participating in this particular celebration.

D. Zirngiebel is cutting some candytuft which is remarkable for size of bloom and spike. Some spikes measured seven inches in circumference.

Mountain laurel is being brought to the city in large quantities. It is unusually fine this year and appears to be growing in popularity for decorative purposes.

New York.

The weather has been extremely hot, and there is an almost complete cessation of everything in the line of flower trade. Many growers have refrained from throwing out their plants in the hope that at the last moment a short revival might be experienced, but it is plainly not on the program for this year. The flower store windows are decorated in the most inexpensive manner possible, and the clerks inside, reduced in number to midsummer allowance, lean listlessly over the counters and watch the perspiring procession pass the door.

A transitory topic for speculation and gossip is a scheme which an enterprising individual has evolved and has already put in partial operation. This contemplates nothing less than an organized force of flower girls, all in uniform costume, who are to operate the beaches, hotels and other places where susceptible people do congregate. A dozen or fifteen of the sirens have already commenced business, the office buildings down town being the base of operations so far. The daily papers have given the scheme considerable notice, and it would appear from the comments therein that New York is overflowing with romantic gentlemen who cannot eat or sleep until they have an opportunity to invest their money with a pretty girl in exchange for a button hole bouquet. The projector claims that this enterprise has been in successful operation in Chicago for a year. New York cannot afford to lag behind Chicago in such things as this.

Philadelphia.

If a few of the days of last week had been tagged with either a July or August label they would not have seemed so out of season. There are plenty of flowers for a good business and as a consequence may go to waste. All the large roses are off and many of the teas are feeling the effects of the hot weather. The last few days have been scorchers and a few more such will make what few roses there are look very bad. There are a great many carnations about, which flower seems to stand the roasting very well. Good ones can now be had as low as 50 cents per hundred, with $1.50 as the extreme for the fancies.

Edwin Lonsdale has had some very fine white iris, which have sold well; also some other colors. They might be called the poor man's orchid; they sold at from $3 to $4 per hundred. The same grower has quite a lot of the genuine aristocrat, but as his fellows are fast moving out of town the sale is limited.

Our friend W. K. Harris has made a discovery. It is not a new rubber, but a new use for the variety he now grows. He has found out, or some one has told him (and he firmly believes it), that rubbers are death to flies, and one or two healthy specimens are sure to rid a house of these pests in short order. A new "ode" with wings to it is now in order.

The genial Harry Bayersdorfer is back again among us safe and sound and with him a host of novelties. Harry thinks no more of a trip to Europe now than he used to of a little run down to Baltimore whenever he got tired.

Some one from Pittsburg says they will have a team to represent the smoky city at Atlantic City in August next in a bowling match "if any." Well now we just want to say right here, that there is going to be a ten pin match such as never was before, during the convention week at Atlantic City, and we are glad to hear that Pittsburg is coming in and we hope that her team will stay and be very close up at the finish.

Arrangements for the convention are progressing, and in a short time there will be lots of news for members of the S. A. F.

John Scallen of New York, was in town last week and went to Atlantic City to attend the annual meeting of the order of Elks. M. P. Norton, of Boston, W. Gude, of Washington, and A. M. Herr, of Lancaster, were also there on the same mission. K.

Chicago.

With the closing of the schools this week the season is practically ended. The closing weeks of the season however are not attended with any great rush. The demoralized condition of the market is evidence enough that the demand for June is very light. The only thing sought after is A 1 rose stock, which is hard to obtain; in fact a first-class rose is an unknown quantity. Here and there we may note a small lot of Kaiserin, which later comes forward as a superb summer rose, a few fair La France and Meteor. These varieties readily sell at $3 to $4, but the bulk of the supply, which by the way is growing less every day, is almost totally unfit for use. In lots of 500 and upwards this stuff is disposed of at $5 to $10 per 1,000.

The young stock planted early and intended for summer cutting, which promised well a week or ten days ago, has suffered greatly from the heat prevailing for some time past. Despite all efforts of the grower mildew has attacked the young stock, in some places quite seriously.

Carnations are in light demand at from 25 to 60 cents. A few fancy still holding up to $1.50 to $2. This week will finish pæonies kept in cold storage. The demand for this flower has kept up fairly well and prices ruled steady at 35 to 50 cents a dozen. Lilium Harrisii is in steady demand at $8. Outdoor grown candidum is now in. Some fair blooms of these are shipped across the lake from Michigan, but these meet with but limited demand at from $1 to $3, according to quality. Sweet peas, now from open ground, continue to flood the market. There is practically no market quotation for this flower, the dealer being able to make his own price whether in small or large lots. There is little or no demand for the rest of outdoor stuff such as corn flowers, campanula, sweet williams, poppy, etc.

At the meeting of the Florist Club Thursday of this week Mr. F. F. Benthey will read a very interesting paper on the history of the cut flower trade in Chicago.

"Egandale," the summer residence of Secretary Egan, of the Horticultural So-

ciety at Highland Park, is now a beauty spot. The very great variety of hardy plants that Mr. Egan has managed to plant on his 5½ acres without undue crowding is really amazing. His place is a gem and has been well described as "the biggest little place in the country." And the beneficial influence of this place upon other residents of Highland Park has been very noticeable. This section will soon be dotted with beautiful grounds intelligently planted and cared for, many covering large areas, particularly along the lake shore. Those who have never happened to visit this section will be surprised to see so much natural beauty within so short a distance of Chicago. Along the lake shore the country is broken by picturesque ravines that need simply to be let alone. The hand of man cannot add a single charm. One of these ravines runs through Mr. Egan's grounds, and he has wisely done nothing except what was necessary to preserve its natural loveliness and to make it possible to enter and enjoy it.

Toronto.

The regular meeting of the Gardeners' and Florists' Association was held last Tuesday, 19th inst., and considering the state of the weather and the time of year it was fairly well attended. During the hot weather it would not be a bad idea to have meetings in the open air in one of the parks, "recubans sub tegmine fagi" as the Latin grammar used to put it.

In spite of the heat, however, a good deal of talking was done, and some business cleared off the board. Two new members were elected and two nominated. A committee was appointed to consider the most suitable place for the Association to take its annual outing, and in order to give the committee something to work on there was some discussion on the subject. Some favored Niagara Falls or Hamilton; others, considering the hard times and the desirability of getting out as many of the members as possible, thought that one of the many pleasure resorts within a few miles of the city would be better. It was also decided that the Association should have several afternoons during the summer for playing cricket, quoits, etc., at Exhibition Park. Other traders have their weekly half holiday, why should not the poor gardeners and florists do likewise? The president and secretary were asked to look into the matter of finances for the chrysanthemum show prize list. It was hoped at one time that the prizes would have been considerably larger this year, and these hopes may still be realized yet, but there will have to be some work done. The ambitious city of Hamilton will this year hold a chrysanthemum show under the auspices of their Electoral District Society, which is in receipt of a government grant, so that Toronto will have to look to its laurels. It would be a pity, however, if these two shows should be held in the same week, but the Toronto show having no government pap to depend upon must if any way possible take in Thanksgiving Day (not a fixture in this country) which may occur on either the first, second or third Thursday in November.

It being still only 9:30 p. m. when all the regular business had been got through with, Mr. C. Tidy, chairman of the committee to consider the advisability of having a florists' section of the association, asked for suggestions from members present, and a pretty lively discussion was indulged in, several members branching off into the various peculiar phases of trade this spring. In connection with this the remarks of "Mack" of Baltimore, on page 1117 of the AMERICAN FLORIST, are extremely apropos.

Many of the florists are left with a large over stock of plants this season; in spite of low prices there has not been the demand from the general public either at market or at the stores. Economy amongst all classes has hit this line of trade a hard blow. E.

Buffalo.

We have been having some real tropical weather of late; at least when the thermometer is up to 94° in the shade we people of this usually cool city think it's warm. But a gentleman from Indianapolis told me last week they did not think it warm there till the mercury went up to 106°. Anyway it's what we want, and the flower beds are now getting a move on them.

Carnations are very plentiful and price down. With this weather they are short lived. Indoor roses are poor with the exception of Beauties. Brides have been very scarce, perhaps because so many weddings large and small has made the demand unusually large. Outdoor roses have been coming in the past two weeks, and sold for all sorts of prices, mostly very cheap. A few nice gladiolus spikes are coming in from some carnation houses at Corfu.

At last one of the largest dry goods houses has gone into cut roses. They have for some time sold books, bicycles, shoes and candy and perhaps many other things not in their legitimate business, but the cut flowers is their latest venture. However, it's a free country if not a highly moral one, and as the proprietors of this rich concern are looked to as models of fine citizenship and pillars of churches besides, whatever they do will be considered all right and even *smart* by the unthinking common herd. As it is, at present the stuff they are offering is utter rubbish and would disgrace any respectable flower store, so no harm is likely to be done.

We read in notes from several other cities in your columns that there has been a good deal of cutting and slashing in prices of plants this year. Very sorry to hear it. In this city I have not heard the first word on the subject. Prices on all the leading plants were as near as possible what they have been for several years past; $1.50 per dozen for geraniums in 4-inch pots, $1 for coleus in 3-inch; $3 to $3.50 for cannas, etc. These have been the same for years with no sign of any weakening and there is demand enough to use up all the stuff. The market don't hurt, for they get on an average better prices than some of the leading greenhouses sell for. I beg to say with due respect to other cities that the undersized scrubby stuff I have seen offered in other cities for bedding plants would not go here. W. S.

Cincinnati.

A few years ago June was looked forward to by the florist as one of his best months. But the different boards of education throughout the country generally have taken many dollars from our retail stores I have reference to commencement exercises. Basket work is always pretty when well done, but these said boards of education saw the feeling that existed at graduating time, when some favored or wealthy young lady would have so many floral tributes that it would take an extra carriage to haul same home, while next to this said young lady would be another not blessed with this world's riches, but with an intellect equally as good; this young lady possibly would not have a single basket. Therefore the action taken by the different boards is certainly justified in doing as they did. This of course does not hold good in all states, but it does in Ohio. Across the river in Kentucky they still give flowers in profusion. Harry Edwards of Newport, Ky., tells me he furnished fifteen baskets and several hand bouquets for their commencement last week. Geo. Meek of Covington, Ky., also had a nice trade. In Kentucky they handle the flowers in this manner: The exercises are divided in two sections; as each scholar finishes his or her address the flowers are brought in and placed in a half circle on the front of the stage and by the time all are through speaking the stage front is handsomely decorated.

L. H. Kyrk & Co. showed us a handsome orchid bouquet, the edges of which were trimmed with lily of the valley and adiantum. The combination was certainly beautiful. Trade in general is getting very dilapidated and comes and goes by spells. The recent rains are helping the carnations planted outside as well as filling up the ponds and cisterns.

The Hoffmeister Bros. are now building three new houses 30x115 feet for growing roses and carnations; they also have several small houses. While they are young in the business, yet they are doing some substantial work and expect to grow good stock this fall. Their sisters are running a store on Elm street and doing a nice business.

Ernest Preston, "For W. Rendigs, assignee for Chas. J. Jones, Jr.," is now selling said stock, which is bringing fair prices. They intend selling boilers, pipe and houses.

Colonel "Policy" Bill Smith, who is an amateur grower and one of our prominent citizens, had two wagon loads of palms and other plants stolen from his yard one night last week. Wonder who of our boys got them. Whoever did has a splendid hiding place, as they have not been heard of since.

Carl Hespler of College Hill, O., is building two new greenhouses. Mr. Hespler has been in the employ of Walter J. Gray for the past four years, is an industrious man and an all-round grower.

Henry Behrens of Middletown, O., was in the city Tuesday. Mr. B. is the only florist in his city and has quite a nice business.

The Cincinnati florists expect to give a picnic sometime next month. G.

St. Louis.

The warm dry spell still continues, and while good rains have occurred all around this country, their only effect is to lower the temperature for a day or so. The occurrence of a drought of the severity of the present one, has never been experienced this early in the season; such things are to be expected during July and August, but the idea of its opening up in May and running through the summer has been unheard of heretofore. Water in many places is becoming scarce, and all outdoor stock, where it cannot be applied, is suffering severely. In the cemeteries where there are no adequate provisions for using a hose, the procession of watering carts and wagons is continuous, and with all this exertion it is hard to keep things looking fresh and healthy.

In going through Mr. Jordan's houses lately a large number of fine latanias were



BOWL OF BLANCHE FERRY SWEET PEAS.
ARRANGEMENT OF FLOWERS

noted; they have been for the last year or two going more heavily into palms, to the exclusion of cut flowers, in explanation of which it is said cut flowers can generally be bought when wanted, and if not grown no serious results will be apprehended in times of plenty. Two houses of palms in 4 to 6-inch pots were especially good, and will make excellent stock for next season's trade if well grown during the summer, a peculiarity of this stock being the firm stocky growth, owing to the cool treatment given. A house of sweet peas up to the glass were about over, but have been cutting heavily since early in the season. Several benches of ferns were noticed in excellent condition, they being principally cuneatum, although several batches of capillus major and trapeziforme were doing well. Quite a patch of carnations are planted out, those in the houses being over; they are looking well and would appreciate a good shower. Hinze's White is still the standard of its color, and Portia leads the reds. The new varieties are all tried, but have to excel the old ones before being given preference. Tidal Wave was much liked during the past season, and will be more largely grown this year. The roses show the effects of the advanced season and replanting will commence during the end of June. Several large blocks of ground planted in narcissus explain where the seemingly inexhaustable supply came from during their flowering season; a number of hardy peas are a mass of flower, giving quantities of white for all kinds of work. The Jack roses also, which were severely hurt by the late frosts, are throwing a second crop of excellent flowers. The city boiler inspectors had just finished going over the three steam boilers, as required by law; they having been stirred up recently, owing to the failure of an ordinance exempting boilers used for heating purposes from inspection to pass the city council.

Two members of the committee appointed to report upon a suitable place for holding a picnic, Messrs. Benecke and Ellison, assisted by Doctor Helwig and Charles Young, visited Meremec Highlands to see what they had to offer, and we are all informed on good authority that as soon as they had arrived and refreshed the inner man, an adjournment was had to the bowling alleys, which were not deserted until train time. So that it is evident the committee is competent to report. The alleys were furnished with solid balls, and the scores were ludicrous, Benecke making 74 and Ellison making four poodles in four successive frames. If it is decided to go there however finger balls will be taken as a matter of course, so that respectable scores may be looked for.

Two special prizes have been announced thus far for the fall show, one of $15 given by Dr. Keith for best vase of American Beauty roses, the other, by Hill & Co. of Richmond, Ind., for best 12 blooms chrysanthemums, one or more varieties, introduction of 1894, consisting of two prizes, $15 for first and $10 for second.

R. F. T.

Indianapolis.

Decoration Day trade at this point was satisfactory. Trade in general was good during the end of May and beginning of June, owing to weddings, funerals and commencements. As usual these occasions came very much bunched, making flowers scarce. Since June 15 trade has been practically dead. Market florists complain very much; some market mornings flowers can't be sold at any price. While some plant men have sold out nicely, many have considerable stock left. The average market stuff has been poor; no doubt raising cut flowers and good plants does not work together in small places. Pot roses do not seem to receive any attention, though good plants will sell at any time.

At the regular monthly meeting for June the Indianapolis Florists' Club considered some important business, especially the recent order of Supt. Chisslet of Crown Hill Cemetery. The secretary was instructed to correspond with the prominent cemetery superintendents in regard to planting flowers on graves and in separate beds. The rule adopted by Supt. Chisslet forbids any planting of flowers and shrubbery, only cut flowers and vases of plants to be allowed. With the assistance of the daily press and many lovers of flowers this rule, it is believed, will be set aside.

A paper written by Wm. Bertermann, "The cut flower business up to date," was ordered re-read at the next meeting, as the late hour prevented discussion. A committee consisting of John Hartje, Wm. Langstaff and F. B. Alley was selected to provide for the holding of the regular annual picnic. The committee will see that a proper place for fishing is selected; solid refreshments will be provided and the third member will furnish all necessary amusements.

Mr. Anthony Wiegand and wife left for California without notifying the club members; he will find himself in a fix when he returns, explaining why he forgot to set up the cigars and cider.

Mr. John Bertermann also did something without the consent of the club; he must answer at the picnic for this neglect. He quietly married and is happy.

Miss Emma Dorner of Lafayette has been visiting Indianapolis friend for several weeks; she came to attend the "Mannerchor" celebration last week. The grand concert given by this society at its fortieth anniversary, assisted by Columbus, Cincinnati and Louisville societies, was the most successful ever held here; the display of flowers was profuse. The late May music festival was remarkable for the absence of flowers, many great songsters being present. A bouquet placed by the committee in the reception room was fired out by one of the singers; asked for a reason, she claimed it was injurious to her voice and gave her headache. What next won't these people do to advertise themselves? A newspaper clipping has gone the rounds in regard to this matter, supposed to come from a doctor in Paris, who said the scent of flowers destroys or injures the voice. This is I think ridiculous; I have enquired of local singers, and they agree with me and wonder that newspapers copy anything of the kind.

Mr. McKeand, city florist, has furnished several parks with flower beds from the greenhouses at Garfield Park. W. B.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By young man, 24 years old, as assistant in a commercial place. Good rose grower. Best of references. Address K L. care American Florist, Chicago.

SITUATION WANTED—By experienced gardener as working foreman in good commercial or private place; married, age 34. Address J. E. S., care Girdwood, Phillips Square, Montreal.

SITUATION WANTED—In either commercial or private place by experienced florist and landscape gardener. Best of references. JOSEPH SIKNTA, 523 Lincoln St., Chicago.

SITUATION WANTED—By a young florist and gardener, Danish, 23 years old, 8 years experience, 7 in this country; best of reference. Address JOHN LEVERIN, 1380 Broad St., Providence, R. I.

SITUATION WANTED—By a second man, commercial or private place. Well experienced also in landscape gardening. Wages moderate. Best references. F H H, 155 Harrison Ave., Boston, Mass.

SITUATION WANTED—By a young German florist, 8 years' experience in growing roses, carnations and general greenhouse work. Address C W, care Garfield Park Rose Co., 1888 Madison St., Chicago.

SITUATION WANTED—J. Kirkwood is open to engage with any lady or gentleman, as gardener. 25 years' experience in the growing of vines, peaches, orchids, stove and greenhouse plants, etc. Apply J. BENNETT, 2332 St. Catherine St., Montreal, Can.

SITUATION WANTED—Orchid grower; special for orchids; 10 years' experience in several of the most important nurseries in Holland, France and Belgium; 25 years old, Dutch nationality and best references. Apply to H. H. VOORNEVELD, South Framingham, Mass.

SITUATION WANTED—As assistant on private place; single, age 27; 12 years' experience in all branches of gardening. Have worked several years on one of the leading private places in the country. Best references. Address J F F, care B. Fagan & Son, Islip, N. Y.

WANTED—A good second-hand hot water boiler and 1500 feet of 4-inch pipe. I. L. PILLSBURY, Macomb, Ill.

WANTED—Sober, reliable man, experienced in rose growing, also capable of taking charge. Address GEORGE ANDERSON, 5220 Woodland Ave., Phila.

WANTED—A first-class working foreman to take charge of 20,000 feet of glass, and grow roses, carnations and general stock. Applicants please forward references and state wages expected to C. HANSEN, St. Paul, Minn.

WANTED—A first-class working foreman to take charge of greenhouses and grow roses, carnations and general stock. Must be sober and reliable. Forward references, and state wages expected. R. M. WALKER, Oxford, Ohio.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man. WILFRED A. BROTHERTON, Rochester, Mich.

FOR SALE CHEAP—Large second-hand florist's ice box, value about $75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—2 large Bay Trees, round heads, 7 feet broad, 12 to 14 feet high. Shown at World's Fair. VAUGHAN'S SEED STORE Chicago.

FOR SALE CHEAP—1 large 10 year old Century plant Agave Americana. Address GEO. H. MOELDER, Smith's Grove, Ky.

FOR SALE—1000 feet of 4-inch cast iron pipe and fittings, as good as new. MRS. GEO. WALDHAUER Saginaw Mich.

FOR SALE—Good florist business, good location; will sell at reasonable price, 3 doors west of Halsted St. P. M. SCHWARTZ, 202 W 12th St., Chicago.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE—Several good second-hand boilers, just the thing for greenhouses, for either steam or hot water heating, in first-class condition, and will be sold cheap. CLEVELAND STEAM BOILER WORKS, Cleveland, Ohio.

FOR RENT—A first class commercial place in suburb of Chicago, containing 15,000 square feet of glass, well stocked with best varieties of forcing roses. Address RENTER, care Olsen & Hughes, 66 Wabash Ave., Chicago.

FOR SALE—The stock and good will of a paying florist business in a thriving Maryland town. Location exceptionally good. Rare chance for a good man with a small amount of capital. For particulars address HEBARD, care American Florist.

WANTED.

100 Euphorbia Jacquiniæflora.

Quote size and prices to
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The C. A. Reeser Greenhouse Plant at Springfield, Ohio, will be offered at Public Sale, Tuesday, July 10th, 1894, at 2 o'clock P. M.

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Said plant consisting of four acres of real estate, with all modern improvements, and a good and substantial residence thereon, is appraised at $7,340. Catalogue list is appraised at $1,250. Terms cash.

For particulars address

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150,000 of all the leading varieties.

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50,000 of leading varieties.

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May and June Propagated.

MRS. ROBT. CRAIG, HARRY BALSLEY, MRS. J. G. WHILLDIN, EDA PRASS, GLORIOSUM, V. H. HALLOCK and IVORY,
$3.00 per 100.

ERMENILDA. W. R. SMITH, THE QUEEN W. G. NEWITT and NIVEUS,
$5.00 per 100.

Prices of other varieties ou application.

Nathan Smith & Son,
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ADRIAN, MICH.



Tuberous Begonias,

GRIFFIN'S STRAIN.
Medal awarded World's Fair.

We are headquarters for the above, the finest strain in the world. Send for illustrated descriptive catalogue with copyright engravings. It tells you all about them.

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ROSES.

	Good strong stock.	Per 100
PERLE, 3-inch		$ 6.00
GONTIER, 3 inch		5.00
METEOR, 3-inch		6.00
MERMET, 3-inch		6.00
BRIDE, 3-inch		6.00
WOOTTON, 2½-inch		4.50
NIPHETOS, 2½-inch		4.50
BEAUTIES, 3-inch		6.00

POEHLMANN BROS., Morton Grove, Ill.

Roses for Planting.

	Per 100		Per 100
BRIDES, 2½-inch	$4.00	3-inch	$6.00
BRIDESMAID, 2½-inch	5.00	3-inch	8.00
K. A. VICTORIA, 2½-inch	5.00	3-inch	8.00
MME. HOSTE		3-inch	6.00
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All are strong, healthy plants.

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Transplanted plants, an honest sample of which will be mailed you for 10 cts. Price per 100, 75 cts.; $6.00 per 1000, cash with the order. First lot are all sold; next lot ready July 1st.

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Mermets, Bride, Gontier, Perle, Clim. Perle, Sunset, Wootton, Niphetos, Hoste.

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200,000 ROSES 200,000

Nice stock from 2½-inch pots.

	Per 1000	Per 100
PERLE	$25.00	$2.80
SUNSET	25.00	2.80
BRIDE	20.00	2.25
MERMET	20 00	2.25
GONTIER	20.00	2.25
MME. CUSIN	22.50	2.50
MARECHAL NIEL	25 00	2.80
FISHER HOLMES		3.00
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And all standard varieties in **Hybrids, Teas, Hybrid Teas, Climbers, Polyanthas, etc, etc.** Strictly our own selection, $20.00 per 1000; $2 25 per 100. Same from 4-inch pots, $6.00 per 100.

Send in your lists for prices.

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FORCING ROSES.

The nice, clean stock of forcing roses in following numbers and varieties, true to label. Must be sold to make room.

300 Brides, 4-inch; 600 3-inch.
1300 Mermets, 4-inch; 340 3-inch.
640 Perles, 4-inch; 525 3-inch.
80 Mme. Testout, 4-inch.
250 La France, 4-inch.

4-inch $10.00 per 100; 3-inch $6.00 per 100.

580 Bridesmaids, 3-inch.....$7.00 per 100
100 Kaiserin Augusta, 3-inch...10.00 per 100
80 Mme. Testout, 4-inch for $12.00
50 American Belle, 4-inch.....for 10.00
100 American Beauty, 3-inch.....for 10.00
160 " " 4-inch.....18c. each
175 " " 5-inch.....25c. each

Cash must accompany order.

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Fine thrifty plants, from 2½-inch pots.

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ALTERNANTHERA, red and yellow (1000 $25)	$3 00	CUPHEA LLAVAE	$4.00
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Also a large stock of Palms, Araucarias, Ficus, Aspidistra var.

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Roses. Roses. Roses.

Perle, Niphetos, Mermet, Bride, Testout, Victoria, Meteor, La France, Albany, Gontier, White La France, Soupert and Bridesmaid, 2 1-2 inch pots, $5.00; 3-inch pots, $6.00 per hundred.

AMERICAN BEAUTY, 2 1-2 inch, $6.00; 3-inch, $8.00 per hundred.

THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

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ROSES, all the very best both new and old.

CHRYSANTHEMUMS, the cream of all the long list now offered, in extra fine plants now ready for immediate delivery.

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40,000 FIRST QUALITY FORCING ROSES.

READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last two years, and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

GEN. JACQUEMINOT, ULRICH BRUNNER,	KAISERIN A. V. BRIDESMAID, 3-inch pots, $8.00 per 100.	SOUV. DE WOOTTON, LA FRANCE, 4-inch pots, $12.00 per 100.	METEOR,
PERLES, SAFRANO,	SUNSETS, NIPHETOS, 3-inch pots, $7.00 per 100.	BON SILENE, BRIDES, 4 inch pots, $10.00 per 100.	MERMETS, MME. HOSTE,

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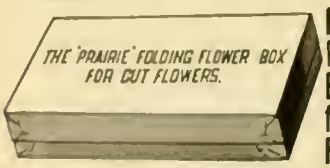
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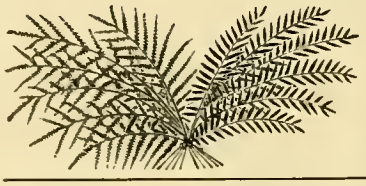
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Field Roots and Green Forage Crops.

[Read by Mr. S. E. Briggs before the American Seed Trade Association at Toronto.]

MR. PRESIDENT:—As I have been asked to read a paper on "Field Roots and Green Forage Crops for Stock Feeding," will endeavor to give an outline as to what we grow and the mode of cultivation in Canada.

Many of you now assembled come from climates varying so widely with that of Canada that what I shall say may differ materially with your experience, for the reason, climatic influences necessitate the growing of different crops and with varied modes of cultivation.

For purposes of stock feeding during winter, the growing of field roots constitute one of our staple crops; more particularly does this apply to the Province of Ontario, not only because of having the largest acreage of cultivated lands, as compared with the other provinces of Canada, but our climate, soil and mode of cultivation are more favorable to their growth and development.

The extremes of heat or cold during the growing season are ill adapted to successful cultivation of most varieties of field roots. Through the months of July and August we experience high temperature; during this season the young plants of Swedes and turnips make but little root growth; with the advance of season, and while the sun is giving us warm days the nights become cool; it is when this change sets in that the root begins to make its best growth; one week of such weather produces a greater change in the development of Swede crops than a month's growth during the warmer part of the season.

Mangels and carrots make their growth more uniformly from time of seeding until gathered in the Fall, and may be more successfully grown in warmer latitudes than Swedes.

Stock raising and feeding is a leading agricultural pursuit in Canada, and as a large amount of profitable food is required for the winter it is evident that field roots are recognized as such, from the vast acreage annually grown, and though the acreage for corn growing is annually increasing and silos are being constructed on every hand, there is also increasing acreage in root crops.

The rapid growth of our dairying industry requires the corn for the production of milk, but for fattening and carrying stock through the winter, roots are found to be most profitable.

Of the various root crops grown, Swedes or rutabagas constitute the largest acreage, and chiefly the Purple Top varieties, Bronze Top, Green Top and White Swedes are also grown, but in very limited quantity when compared with the Purple Top sorts. The Swede is especially adapted for winter storage, and may be safely carried until June if housed in properly constructed root cellars. The white and yellow fleshed turnips, which we term "Fall feeding sorts," are unsuitable for winter storing. The white fleshed varieties lose their feeding value by January; the yellow fleshed turnips may be carried until February, but then become spongy and worthless.

Mangel wurzels are next to Swedes in order of acreage grown; they yield a larger bulk of feeding substance per acre, and are specially valuable for feeding milch cows. As a winter storing crop they are unsurpassed; the golden fleshed tankard can be carried until October of the following year.

Carrots, while not as generally grown as Swedes and mangels, receive no small degree of attention and favor. They yield a large and valuable product, which is used for feeding milch cows and horses, hence the name "horse carrots."

Sugar beets are grown in limited quantity; they are worthy of more general cultivation, especially where dairying operations are carried on, there is but little difference in quantity of milk produced from feeding mangels or beets, but the butter made from the feeding of sugar beets has not only a firmer body but a finer flavor.

If we consider the food values between Swedes, mangels and turnips, we will find that the largest yielding crop does not alone determine their value, but that Swedes hold the highest rank for general feeding purposes.

To show this I will quote from the analysis of Professor Shuttleworth as given in Ontario agricultural report for 1893:

Swedes, result of average with five varieties; yield eighteen tons of roots per acre; roots averaged 1.98 pounds each; dry or food matter, 13.09 per cent, or 4,778 pounds per acre.

Mangels, average of four varieties; yield 18¾ tons; roots 2.13 lbs. each; dry matter 10.24 per cent, or 2,723 pounds per acre.

Turnips, average of three varieties; yield 14½ tons; roots 1.55 lbs. each; with S 14 per cent. or 2,238 pounds per acre of dry matter. It will thus be seen that while mangels gave three-quarters of a ton more roots per acre, the quantity of dry or digestible food is 1,055 pounds less than the Swedes, or about 2.85 per cent in favor of the latter, and turnips 4 95 per cent less food value than Swedes.

The same analysis also shows us that medium sized roots may produce less bulk but a greater quantity of food value per acre than large grown roots, and shall endeavor to show later on that it is less profitable to grow very large roots by greater space between the drills and in the rows than when grown medium in size and more thickly in the row.

To grow field roots successfully it is not only necessary to select proper soil, but it must be made rich and have thorough cultivation; no better fertilizer can be applied than well rotted manure from the stable; the ground should be prepared and manured in the fall. Fine stable manure may be applied in the spring, but it must be free from straw or coarse matter, otherwise the roots are liable to grow rough and prongy, making them more difficult to gather in the fall. The best soil for growing roots is clay loam; it is easily worked and admits of free growth to the roots, strong clay lands yield heavy crops if close attention to cultivation be given throughout the season. Sandy loam will produce good roots, but requires to be well enriched. In all cases deep cultivation is required.

The ground for the various root crops are similarly prepared, but as mangels, carrots, and sugar beets require to be sown as early as possible in spring, the same cultivation cannot be given after frost disappears as with later sown varieties, it should therefore be manured the previous fall, that only the necessary cultivation need be given in the spring; this consists of plowing, harrowing, and rolling, and repeated, if necessary, till all lumps disappear.

The ground being thus made ready it is thrown up in "ridges" or drills by the use of a double mouldboard plow. Carrots and mangels should invariably be sown upon such ridges that a good depth to the seed bed may be obtained, thus allowing deeper growth to the plants. The after care of the crop is easier, and should the season be wet the young plants are less seriously affected than when sown upon the level.

It is a debatable question whether ridge or flat cultivation is best for Swedes and turnips, but for the purposes of cultivation and protection against wet seasons, I would recommend sowing upon ridges or drills for all root crops, and which is the system adopted by our most successful growers.

What distance between the drills or rows will give the heaviest and most profitable crop? If I may be permitted will again refer to experiments made at Ontario Agricultural College in 1892 and 1893 with sowing rows 20, 26 and 32 inches apart.

These tests were made by sowing carrots, mangels and Swedes, each at the above named distances between the rows.

For comparison, and without giving unnecessary figures, it was found that the yield of crop was greatest per acre when sowing 20 inches apart, but the roots were largest, while yield was least, at 32 inches apart, it is therefore a loss in point of yield when sown at too great a distance between drills.

The thinning of plants in the row is more or less governed by the distance between the drills.

Greater distance, both between the drills and between the plants in the rows will undoubtedly give the largest roots, which are not only finer in appearance but more quickly handled when gathering and in feeding, but how will this increased distance affect the yield and value of the crop? The same experiment above referred to demonstrates that Swedes thinned to 20 inches apart produced bulbs averaging 2.44 pounds each, with only 11.64 per cent of food matter, or 3,259 pounds per acre, while those thinned to only eight inches apart give 6½ tons increased yield per acre, bulbs averaging 1.60 pounds each, with an increase of 1,720 pounds of food substance, as against the larger bulbs when grown at greater distance apart. Similar results are shown with carrots and mangels.

We must conclude from this evidence that to allow more than a reasonable distance either between the rows or when thinning that we sacrifice the value of the crop for the appearance of its product.

Drills when only 20 inches apart allow of insufficient distance for the convenience of cultivation. Without seriously reducing the value or yield would recommend that carrots be sown 22 inches between the rows, mangels, Swedes, turnips and sugar beets 24 inches, and plants thinned in the row as follows: Carrots, 3 to 4 inches, mangels, globe sorts, 9 to 10 inches, long varieties, 8 to 9 inches, Swedes, 8 or 9 inches, turnips, 9 inches, sugar beets, 8 inches apart.

Carrots, mangels and sugar beets require to be sown as early in spring as possible, according to favorableness of season, but not later than the end of April.

Swedes from 20th to 27th of June, if sown at an earlier date the quality of the bulb is apt to be inferior, as the hot weather of July and August is not favorable to their growth and tends to make them tough and fibrous. Turnips do best when sown from middle of July till begin-

ning of August, and may be sown even later in the season.

The quantity of seed sown per acre varies according to the liberality of the grower. From careful observation we find that he who uses a fair quantity of seed seldom fails in having a good crop of roots, the inference may be drawn that he who sows ample seed will be equally liberal with the manure as well as in their cultivation, all these requisites are essential for success.

The following quantities of seed are recommended per acre: Mangels and sugar beets, 5 pounds, carrots, 2 pounds, Swedes, 2 to 2½ pounds, turnips, 2½ pounds. These quantities are above the average usually sown. We are aware that heavy crops have been grown when using less than half these quantities, but the risk is too great, one year with another, when sowing seed too sparingly; it is greater economy to use ample seed and have a full stand of plants, than to have wide barren spaces, which is likely to occur with light seeding. Insects and other enemies frequently claim a share of the plants; they must be provided for.

The culture of plants for the food of domestic herbivorous animals, has always been confined to nations distinguished by advancement in the pursuits of agriculture, we find such branch of husbandry to have been successfully practiced by the Romans, and which has been continued, and yet serves as an index to determine the progressive advancement of agriculture up to the present time.

The American agriculturist has not seriously felt the need of special thought on these matters until within the past few years, but now that our fertile prairies and natural pasturage is fast coming under cultivation for other uses, the want of proper grasses to form permanent and luxuriant pasturage is a growing need.

Our experimental stations, both in the United States and Canada, have done much toward ascertaining the best grasses for our North American continent. Much has yet to be done. The seedsmen must take no small part in developing and advancing this branch of agriculture, and which will eventually result in the wider extension of the seed trade.

European seed houses supply annually enormous quantities of grass seeds, both for the Continental and American trade. The day is not far distant, however, when we shall become large exporters of varieties, many of which we may reasonably anticipate will be superior to those now obtainable; especially will this apply to varieties adapted for growing on this continent, as we already find that many of the best European grasses will not thrive in our varied climate, owing to extremes of summer heat and winter frosts.

In Canada alone no less than 300 varieties of grasses are found wild or naturalized, but varying largely in degrees of usefulness to the farmer, and while many of them produce but a meagre quantity of food and of poor quality when wild, will improve in yield and nutritive qualities when cultivated; the same conditions apply to varieties found in the United States, if therefore such of our suitable native grasses are selected and grown for commerce, we may expect great advantages and improvements in the formation of pasture lands in the near future.

Compare the pastures of England with those at home and what do we find, that the English pasture, which is formed by the use of many varieties of grasses and clovers, in mixture yields an almost endless quantity of food, rich in flesh-forming constituents, palatable and relished by all kinds of stock, while those of Canada and the United States, which are usually composed of clover and timothy, soon become almost barren of food, the reason for this is, that when only clover and timothy are sown there is nothing to follow their season of growth, and when once cut down remain apparently exhausted, but not so with grass mixtures. These, when composed of suitable varieties, come into growth at various stages of the season, and when eaten off, soon regain their vigor of growth and continue fresh and sweet throughout the season.

We are not so favorably situated in all sections of this country, nor have we the same favorable climate as England, it must not therefore be expected that we can obtain the same perfection in growth, generally, which we have in England, but lands can be found in every state and county that are exceptionally well adapted for pasturage, these should be laid down with mixtures of natural grasses.

Many of our progressive Canadian farmers are enjoying the luxury of such pastures, and are sustaining one cow per acre for an equivalent of seven months of the year, while the prevailing system of only clover and timothy will barely feed one cow per acre for three months.

It is a fact to be regretted that grass mixtures have not been more generally cultivated, in Canada much has been written upon the subject, and exertions put forth to induce their adoption, but with only partial success.

It is well known that the average agriculturist is slow in making departures in any system practiced by his forefathers, nor is he always ready to invest an extra dollar even when he can double his capital, until his neighbor first makes the experiment and proves it can be done; he may then be willing to make the investment, but through his constant desire to save a penny, is only agreeable to pay the price of a low grade mixture. Such ending is that he has not experienced expectations and falls back on his old practices.

The cost for laying down pastures with suitable grasses is somewhat more per acre than with clover and timothy, this, and the effect from using poor mixtures, has, to some extent, hindered their more general use, but where desirable and permanent varieties have been cultivated, they have been found profitable and most desirable.

There are numerous varieties of grasses which have been used when forming mixtures, but those found best adapted and most permanent in our climate, of the imported varieties are:

Meadow Foxtail, *Alopecurus pratensis;* Tall Oat Grass, *Avena elatior;* Meadow Fescue, *Festuca pratensis;* Tall Fescue, *Festuca elatior.*

We may add to these of our American and Canadian grown varieties:

Kentucky Blue, *Poa pratensis;* Canadian Blue, *Poa Compressa;* Red Top, *Agrostis vulgaris;* Orchard Grass, *Dactylis glomerata;* Timothy, *Phleum pratense.*

The Italian and perennial rye grasses *Lolinum Italicum* and *L. Perenne,* are largely used in mixtures, but are unsuitable for our winter climate; the Italian will not survive a winter's frost, the perennial rye may live through a mild winter but soon disappears; these should not be used when forming permanent mixtures, but for the purpose of a crop of grass or hay, the same season as sown, are very suitable.

It is no doubt a temptation, when making up mixtures to incorporate the rye grasses, as their low cost will yield better profit to the dealer, but the failure and disappointment to the purchaser, in realizing his object, should be considered, as also the ultimate success for the good of the trade.

Clovers should also enter into the composition of grass mixtures; the varieties most suitable are:

Alsike, *Trifolium hybridum;* White or Dutch, *Trifolium repens;* Trefoil, *Medicago lupulina;* Lucerne, *Medicago Sativa.* Red clover is usually included, but is not of such a permanent character as the other named clovers.

It is not possible or prudent to rely upon any specific formula when composing mixtures, the location and nature of the soil must be considered, as to the varieties required and proportions of each, the quantity of seed should not be stinted; the quantity of seed per acre should not be less than 28 pounds, including grasses and clovers, even this quantity can be increased with profit.

In selecting soils for permanent pastures it will be found that those which are unduly dry or excessively moist will not be suitable, or in other words, those which are very light or very heavy should not be selected. Clean tillage and thorough pulverization are important essentials. If the soil be not free from foul weeds, they will rapidly grow, increase, crowd out and materially injure the grasses. Thorough pulverization is necessary to facilitate the covering of the seeds evenly and uniformly, and to allow easy penetration of the rootlets of the young plants.

The seed should be sown in spring as soon as the land is dry enough for working; after the ground is prepared it should be first rolled, then sow the grasses separately, followed by sowing the clovers in opposite directions that an even distribution may be obtained, then harrow lightly and finish the operation by again rolling. Seeds thus sown will soon appear above ground and continue to grow rapidly.

Many advocate sowing about one bushel of barley per acre at time of sowing the grass seeds, should this be done, we would recommend the early cutting and curing of the barley, but would prefer sowing grass mixtures without other crop.

I have omitted naming several grasses which are usually found in seedsmen's lists; some of them are suitable for special purposes only, but for the purposes of this paper have endeavored to select only those which are found best suited to our Canadian climate. I might, however, mention *Bromus Inermis* or "Austrian Brome grass." This variety has recently been introduced in different parts of Canada, and from reports received it has been found admirably adapted for pasturage on lands of light or moist descriptions, and has thus far stood the frosts of Manitoba and the northwest, giving an early, heavy crop and producing a good aftermath of succulent leafy shoots.

Should this grass continue to give the same good results as for the past three years it will be an acquisition to our northwest lands where grasses, such as we can grow in the east, will not permanently thrive. We would not recommend its use for eastern cultivation, unless for the purpose of remaining in pasture for several years, because it is not so easily eradicated from the soil as those with less underground root-stocks.

When buying or selling grass seeds too much care cannot be exercised in observing that they are true to name. Those who deal in grasses are aware of the difficulty experienced in obtaining European varie-

ties that are free from adulteration, for not only does such adulteration reduce the value of the variety to the purchaser, but often foul weeds are introduced, much to the injury of the pasture sown. It is only by supplying pure seeds and those adapted for the purpose intended, that the general use and ultimate building up of the grass seed trade can be attained.

Duties

Below is the present status of several articles of interest to the trade, under the proposed Wilson bill.

Onions and beans, 20 cents a bushel; peas dried, 20 cents a bushel; split peas, 50 cents a bushel of 60 pounds; peas in cartons, papers or other small packages, 1 cent a pound. Plants, trees, shrubs and vines of all kinds, commonly known as nursery stock, not specially provided for, 10 per cent. ad valorem.

Potatoes, 15 cents a bushel of 60 pounds; castor beans, or seeds, 25 cents a bushel of 50 pounds.

Garden seeds, agricultural seeds and other seeds not specially provided for, 10 per cent ad valorem. Vegetables in their natural state, not specially provided for, 10 per cent. ad valorem.

Orchids, lily of the valley, azaleas, palms and other plants used for forcing under glass for cut flowers or decorative purposes, 10 per cent. ad valorem.

A FUNNY SUIT is in progress in this city. Datlip Bottger, it is alleged, bought of a Northwestern Seedsman a supposed package of Cauliflower seeds. The seeds were planted but the product was Turnips. Therefore suit is entered for $600 damages for loss of time, wear and tear of the soil, and the difference between the market value of the Turnips and the estimated value of the desired Cauliflower. The portentious fact is discovered that three ounces cauliflower, costing a little over $1, is relied upon to bring, in the market, after having gone through the necessary process of development, the sum of $600, which most capitalists might consider a good investment for one season. And yet Donnelly says the farmer is oppressed. Later:—Judgment was rendered in favor of the Seedsman for cost of seeds sold.—*Stack's Adv Bulletin, St. Paul.*

HERMANN'S SEED STORE,
413 EAST 34TH STREET,
Near Long Island Ferry, NEW YORK.
JUST IN, NEW CROP OF
Primula chin., Cineraria hybr.
We are now ready to book orders for
ROMAN HYACINTHS, LILIUM HARRISII, LILY OF THE VALLEY, ETC.
Write for prices, it will save you money.

NOW READY.
3000 COLEUS, in fine condition, mostly Verschaffeltii, Golden Bedder and some fancy varieties, 2½ and 3-inch pots, $2 50 per 100.
VERBENAS in bloom, very fine and healthy, 3-inch pots, $2 50 per 100.
100,000 CABBAGE Plants, $1.50 per 1000; $1 50; the finest strain in the market; every plant will make a head if planted from now to Aug. 15. Cash with order.
WM. J. CHINNICK, Trenton, N. J

OUR BARGAIN LIST. Per 100
English Ivy, 2-inch pots, 3 to 4 feet high $2 00
Coleus, our regular 25 assortment 1 50
Polyanthus, 3-in. pots, our regular 25 plants 2 00
Geraniums, assorted, to save carrying over. 2 00
Alternantheras, to close at once 1 00
Roses, special offer, Bride, La France, Mermet 2 00
Verbenas, nice assortment of colors, 2-inch 1 00
Fuchsias, extra nice, in bloom 2 00
The "Hard Times" Cash Collections of Palms (5 & 6-in. for $1 and 4 for $2; Latania, Kentias, etc.) are moving, but we can supply all who send at once. Mention AMERICAN FLORIST and receive large Tricolor Geranium, or 3 English Ivy, free.
WILLIAMS & SONS CO., Batavia, Ill., Manufacturers of BATAVIA LABELS.

TO BUYERS OF
LILIUM HARRISII.
There will be sold this year in the United States a large quantity of Lilium Harrisii from which the flowers were cut in Bermuda the past season for Easter trade. Such bulbs will prove very unsatisfactory for forcing.
We have secured from one of the largest and best growers in Bermuda his entire crop of Lilium Harrisii, from which no flowers were cut. It has been personally inspected by us during cultivation, and is of the purest strain and absolutely free from any taint of disease, an exception in these respects to many bulbs offered. Our bulbs are grown on new ground at a great distance and entirely separated by water from the infected district, with the result that not the slightest vestige of disease has appeared among them.
Bulbs will be delivered full measurement and at prices as low as reliable goods can be offered. Florists wishing to secure this quality of bulbs should write us for prices, stating quantity required.
It is a well-known fact that large quantities of low grade Dutch and French bulbs are annually unloaded upon the American market. We have made it a special point this season to secure bulbs only of the highest grade and shall depend upon our ability to supply you with this quality of goods at reasonable prices for your continued favors.
We have not secured all the best bulbs that are grown, but all that we have are of that kind.
SEND US A LIST OF YOUR WANTS IN
Roman Hyacinths, Dutch Hyacinths, Narcissus, Tulips, Freesias, Lily of the Valley, or Fall Bulbs of any kind. . . .
PITCHER & MANDA,
SHORT HILLS, N. J.

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Bulbs AND Plants
We are now prepared to quote lowest possible prices for next July, August and September delivery.
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5,000,000 FREESIAS
Buy FIRST HAND. We will deliver Freesia Bulbs, all charges for transportation paid, as follows:
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Liberal discount on larger lots. Send for our price list.
Order NOW your Japan Bulbs, Longiflorum, Auratums, Rubrums, Albums, we are Headquarters. We are the ONLY FIRM in the U. S. who guarantee you SOUND BULBS delivered.
Address all communications to
H. H. BERGER & CO.,
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CYCLAMEN SEEDS,
European strain.
LILIES OF THE VALLEY,
Berlin and Hamburg Pips.
FLOWER SEEDS for Fall delivery.
METAL WREATHS.
All at Import Prices.
SCHILLER & CO.,
Commission Seed Merchants,
122 E. 23rd Street, NEW YORK.
Please make us offer of all kinds of Seeds and Bulbs, we will sell it for you.

THE GREAT ANTIPEST.
For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
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CHEAP CUT FLOWERS

may be had from bulbs in winter and spring. We now offer bulbs at prices that you can buy and pay for them. When in bloom they will be a great help to you to offer cheap flowers to the public. They occupy very little room in your greenhouses, can be forced very quick, nearly three times as quick as other stuff, and produce flowers of very gay colors at a time when other stuff is rather pale and dull. Bulbs in bloom can be sold at a price in the reach of every one.

References as to the quality of our bulbs we can give you to nearly all the leading Bulb Importers in the United States.

Ask for our 1894 Catalogue.

☞ **Please ORDER as SOON as possible.**

SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE, near Haarlem, **HOLLAND,**

Orders Booked Now



for Future Delivery:

Lily of the Valley, forcing pips; Roman Hyacinths, Narcissus, Spiræa, and all forcing bulbs. Azalea, Rhododendron, Roses, etc., plants. Address

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. New York.

SEEDS!
PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

Our buyers will visit Holland, Southern France and Bermuda during the month of June, and orders placed with us now will have most careful personal attention by them.

IMPORT BULB PRICES.

ROMAN HYACINTHS, and all French Bulbs
LILIUM HARRISII AND DUTCH BULBS.
FREESIAS Ready, Select Bulbs, per 1000, $6.00.

NOW is the time to order. We are quoting the lowest rates of the season.

☞ APPLE GERANIUM SEEDS, new crop, per 100, 25c.; per 1000 $1.25.

NEW YORK: 26 Barclay Street. **VAUGHAN'S SEED STORE** 146-148 W. Washington St., CHICAGO.

P. VOS & CO., SASSENHEIM, HOLLAND, GROWERS OF

Hyacinths, Tulips, Crocuses, Narcissus, etc.

WE ARE ABLE TO QUOTE THE LOWEST PRICES FOR WHOLESALE DEALERS.

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ERNST RIEMSCHNEIDER, Altona, Hamburg
LILY OF THE VALLEY PIPS, BULBS & CHOICE SEEDS ETC.
CATALOGUES FREE. SOLE AGENTS FOR U.S. AMERICA & CANADA.
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. . DUTCH BULBS . .

PETER VAN VELSEN & SONS,
Houtvaart-Overveen near Haarlem, Holland.
Growers of Hyacinths, Tulips, Crocus, Narcissus, etc. Catalogue free on application. Special prices given for large quantities.
Established 1834.

When writing to any of the advertisers on this page please mention the American Florist.

Pittsburg.

Thomas Lister died at the Mercy Hospital June 21 of typhoid fever. The deceased was born in Aberdown, Fifeshire, Scotland, and came to this country about 10 years ago. He was formerly head gardener to Winthrop Sargent at Fishkill-on-the-Hudson and James Kirk, the well known soap manufacturer, at Hartland, Wis.; later identified with Supt. A. W. Bennett of the Bureau of Parks, Pittsburg. He was buried at Homewood Cemetery by Pittsburg Lodge 484, F. & A. M. Floral tributes were sent by the Pittsburg Florists' Club and the employes of Phipps Conservatories, Schenley Park. He was a young man of many excellent qualities and was highly respected by all who knew him. He was about 30 years of age.

Mr. James S. Taplin was in town last week from the west on his way back to New York, and reports business fair.

B. L. Elliott of Elliott & Ulam will be married on Thursday next, 28th, and expects to spend the honeymoon east, visiting Philadelphia, New York and Boston.

Trade in general has been very quiet; many of the stores have had quite a number of weddings. B. A. Elliott Co. have been quite busy the past week with out of town funeral work.

The parks are rushing the bedding, and when finished there will be some designs of great merit, both in Allegheny and Pittsburg, on which I will comment later.

The market is very quiet. The warm weather for the last two weeks has about ended the run on all bedding plants, which I must say have not been first class by any means. Flowers plentiful; carnations $1 per hundred, roses from $2.50 to $6 per hundred. A. J. E.

Galt, Ont.

Trade has been very fair, notwithstanding wet and cold. Quite a few new private establishments have been built lately, and now two new commercial ones, namely, A. Oliver and Walker & Co. The former is a hustler. Andy will get there all right; he is to heat with hot water. D. McGeorge has decided to change to hot water also.

Our September show promises to be of unusual interest this year owing to a new feature introduced. John Wells, A. Common and D. McGeorge each offered 18 pot plants to children aged from 10 to 15 years in the first week in June on condition that they grow them and bring them to the show, the society to offer prizes for them, and then they become their own property. Of course the secretary was besieged with applicants; instead of 18, as far as I can learn, it reached 70. R.

Prices Lower Than Ever.

Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to $5 each, fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

For general Japanese stock apply to

F. Gonzalez & Co.,

303 to 312 Wayne St., SAN FRANCISCO, CAL.

PLEASE mention the AMERICAN FLORIST every time you write to an advertisers.

ZIRNGIEBEL GIANT PANSIES.

Owing to favorable weather, have been simply magnificent, this season, and our seed beds are a sight to behold. Never before have we obtained such size and colors, and as usual, wherever exhibited, have eclipsed everything else, receiving also the most flattering testimonials from the leading florists and seedsmen all over the country.

We will have new Seed to offer on about July 1st of our popular strains

THE GIANT MARKET AND GIANT FANCY

in trade packages of 2000 and 500 seeds respectively, with practical directions to sow and grow our pansies; pkt. $1.00 each.

Also plants for sale later on.

DENYS ZIRNGIEBEL,
. . . NEEDHAM, MASS.

Pansy ★ Seed.

The JENNINGS STRAIN of high grade Pansy Seed. New crop now ready. Saved with special care from only the very finest varieties and (warranted) first-class in every respect.

THE JENNINGS XX STRAIN.

The cream of Pansies. Grand colors mixed, pkt., 1500 seed, $1.00; 1 oz. $8.00.

The Jennings Strain, finest mixed, pkt. $1.00 about 2500 seed; 1 oz. $6.00; 3 ozs. $15.00. No skim milk in this strain. (They are just as good as I can make 'em). To my old patrons I would say they are a big improvement over last season—more variety and finer colors. The best strain for florists either for winter bloom or spring sales; all large flowering.

Black Dr. Faust, finest	pkt., 2500 seed,	$1.00
Finest Yellow, black eye	" "	1.00
Pure White, the best	" "	1.00
Victoria, bright red	pkt., 1000 seed,	1.00

All my own growth of 1894. Half pkts. of any of the above 50c. Please send money orders or registered letter. Cash with order. Address

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Roemer's Superb Prize Pansies.

The finest strain of Pansies in the World.

Introducer and Grower of all the leading Novelties.

Catalogue free on application.

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CROPP'S
RIESEN PENSEE

neue ernte fertig mitte Juni. Blumen uber 3 zoll im Durchmesser, schone Form, meist helle Farben, von annbertreflicher Qualitat. 1000 Korn $1.00; 6000 Korn $5 in Briefmarken oder Post Anweisung.

CARL CROPP,
Erfurt, Germany.



H. Wrede,
LUNEBURG, GERMANY,
Special Cultivation of
PANSIES.
4 Medals awarded World's Fair.
☞ Price list on application. . . .

Pansies Worth Raising.

There is money in them. They have proved it again, even in these hard times. NEW SEED, perfectly ripe, READY NOW.

One package, 1-8 of an ounce.....$1.00
Five packages.....4.00

Cash with order.

CHRISTIAN SOLTAU,
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LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

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Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

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ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.

A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich St., New York City.

"HELEN KELLER"

The new Carnation; pure white, delicately marked with red.

Price for well Rooted Cuttings:
$3.00 per dozen; $12.00 per 100; $25 00 per 250; $90.00 per 1000. 500 at 1000 rate. Orders may be sent either to

JOHN N. MAY, Summit, N. J. EDWIN LONSDALE, Chestnut Hill, Phila.

FRED. DORNER & SON,

Carnation Growers,

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CARNATIONS

Rooted Cuttings all sold or planted out. Field plants for sale in the fall.

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The Pines. KENNETT SQUARE, Chester Co., PA.

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

THE JACQUEMINOT CARNATION

is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. NO MORE SAMPLES—we cannot spare the time. Send for circular. Per dozen, $2.00; per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.

PETER FISHER & CO.,
ELLIS, Norfolk Co., MASS.

HEALTHY ROOTED CUTTINGS

Carnations AND Chrysanthemums.

STANDARD VARIETIES.
MARIE LOUISE VIOLET RUNNERS.
SMILAX, 2½-inch pots.
Satisfaction and prompt shipment guaranteed.

SAMUEL J. BUNTING,
Elmwood Ave. & 58th St., PHILA., PA.

Carnations a Specialty

Rooted Cuttings and Young Plants sold out. Nice Field-Grown Plants in Sept. Send for prices.

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DWARF FRENCH CANNAS

We offer an immense stock of strong, well established plants from 4-inch pots, which will make a display at once. All have been well hardened off in open frames, and must not be confounded with dormant eyes or freshly divided plants out of benches.

We list here only the principal varieties, of which we have a large supply. For a general list refer to our Spring Trade List, which describes over seventy-five varieties including all the desirable novelties of the season.

	Per 100
Madame Crozy	$10.00
Alphonse Bouvier	10.00
Paul Marquant	8.00
Florence Vaughan	25.00
Charles Henderson	25.00
Paul Bruant	15.00
Comtesse de L'Estoile	15.00
Chas. Dippe	15.00
Cronstadt	15 00
Explorateur Crampbel	12.00
Gustav Senneholz (true)	10.00
Maurice Mussy	15.00
Marquise Arthur de L'Aigle	10.00
Nardy Pere	15 00
Secretary Stewart	10 00
Antoine Crozy	8.00
Baronne de Sandrans	10.00
Baronne de Renowardy	8.00
Comte Horace de Choiseuil	10.00
Duchess de Montenard	10.00
E. Chevreul	12.00
Enfant du Rhone	8.00
Edward Michel	10.00
Geoffroy St. Hilaire	8.00
J. Thomayer	15.00
Miss Sarah Hill	10.00
Mr. Cleveland	10.00
Mlle. Liabaud	8.00
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Statuaire Fulconis	8.00
Ventura	8.00
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Pierette de Biorlet	8.00
Isaac Casati	8.00
Duc de Montenard	10.00
Segionaire	8.00
Sophie Buchner	25.00
Emile Leclerc	6 00

We will furnish one each of the above varieties, 46 plants for $5.00, or if this set contains duplicates of any varieties you have in stock we will omit any that you may specify and add other choice varieties in their place.

HENRY A. DREER,
PHILADELPHIA, PA.

EXTRA PANSY SEED.

MAMMOTH SUNBEAM STRAIN.

A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected; better seed plants this year than ever; receive very high praise from my customers; no finer strain offered anywhere; florists should sow of it.

Trade pkt., 500 seeds, 25c; 3 pkts. 60c; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

TOBACCO DUST. Per 10 lbs 50c; 25 lbs $1.00; 50 lbs $1.50; 100 lbs $2.50. ☞Sample FREE.

Vaughan's Seed Store, Box 688, **Chicago.**

CELERY PLANTS, $1.00 per 1000. Strong, well rooted and stocky.

Address CELERY PLANT CO., Kalamazoo, Mich.

Sunset Seed and Plant Co.

(SHERWOOD HALL NURSERY CO.)

No. 427-9 SANSOME STREET,

SAN FRANCISCO, CALIFORNIA.

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CALIFORNIA-GROWN SWEET PEAS

And other Flower Seeds.

PACIFIC COAST TREE SEEDS

And Native Bulbs.

JAPANESE LILY BULBS

And other Oriental Specialties.

ONION SEED, PEAS, BEANS, ETC.

Write for special contract prices.

ROOTED CUTTINGS

COLEUS, 10 kinds by mail.....60c per 100
" 12 kinds by express..$4.00 per 1000
ALTERNANTHERA P. Major by mail.....50c per 100

CASH WITH ORDER.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

Mention American Florist.

Verbenas

SPECIAL OFFER. Per 100 Per 1000

Unsurpassed Mammoths, 2½-inch pots	$3.00	$25.00
General collection, named, 2½-inch pots	2.50	22.00
Germinums, double and single, 3½-in. pots	8.00	

Send for price list of Carnations, Chrysanthemums and other florist stock.

WOOD BROTHERS,
Fishkill, N. Y.

Cyclamen Seeds.

KOCH'S SUPERB PRIZE CYCLAMEN.

The Finest Strain in the World.

Bright dark red	1000 seeds	$4.50
Rose of Marienthal	1000 seeds	4.50
White with carmine eye	1000 seeds	3.75
Mont Blanc, EXTRA	1000 seeds	6.25

Cash with order.

LUDWIG KOCH, Wandsbek, Hamburg, Germany.

Mention American Florist.

CHRYSANTHEMUMS.

From 2½-in. pots, @ $3 per 100.

STRONG SMILAX, from 2½-inch pots, $3.00 per 100; $25.00 per 1000.

PANSIES, from cold frame, $15.00 per 1000.

Address J. G. BURROW, Fishkill, N. Y.

Water Plants.

Eichhornia Azurea (New Blue Water Hyacinth), each 20c; dozen $1.75.

Eichhornia (Pontederia) **Crassipes Major** (Water Hyacinth), $2.00 per 100, prepaid, or $8.00 per 1000, not prepaid.

	Each	Doz.	Per 100
Nelumbium Speciosum	$.40	$5.00	$25.00
Nymphæa Devoniensis	.50	5.00	
" Flava	.20	2.00	8.00
" Odorata	.10	1.00	6.00
" " Gigantea	.20	2.00	12.00
" Zanzibarensis Azurea, in bloom	.40	3.50	25 00
" Rosea, in bloom	.40	3.50	25.00
" Dentata	.50	4.00	30.00
Pistia Stratiotes or Water Lettuce		.15	1.00
Myriophyllum Proserpinacoides or Parrot's Feather		.15	1.00
Sarracenia Variolaris	.10	.50	3.00
Limnocharis Humboldtii (Water Poppy)	.10	.60	4.00

Small plants of N. Zanzibarensis and N. Dentata, 10c each, or seeds 10c per large packet, or $2 00 per ounce, not prepaid.

Nephrolepis Exaltata (Sword Fern), selected plants from open ground, $12.00 per 1000, or $2.00 per 100, delivered.

BRAND & WIGHERS,
SAN ANTONIO, FLORIDA.

Mention American Florist.

CYCLAMEN.

Best German Strain. New Seed.

		1000 seed
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Trade has fallen off quite materially, still there has been no great surplus at any time. The best teas, Kaiserin, Testout and La France, retail readily at $1 per dozen. The poorer grades go at 75 cents. Carnations are still quite abuudant and of good quality. Among the reds Portia seems to be the favorite. Carnations retail at 25 cents per dozen. Sweet peas have not made their appearance to any great extent.

In roses Bridesmaid will be planted the most extensively of any of the new varieties. There seems to be a hesitancy on the part of our growers to plant Kaiserin extensively for winter blooming. Though never thoroughly tested by any here, they all seem to think it of doubtful value for winter blooming As a summer rose it is showing itself a leader, and each day brings fresh proof of its great merits.

Carnations that have been planted out are rather backward, owing to the extreme heat and drought of the past few weeks. Now that cooler weather and refreshing rains have come we expect to see an improvement all along the line. Violets and sweet peas have withstood the drought well, as have asters, phlox, etc.

The store of the Warrendale Greenhouses has been discontinued. Dull times and poor sales for some time past have induced its closing.

Inquiry of the principal growers about town elicits the fact that the spring trade in plants and cut flowers has been nearly if not quite up to the average. While prices ruled somewhat lower, the aggregate in sales will foot up to the average. The quality of both plants and cut flowers has been better than heretofore and the quantity larger. FELIX.

If you use straps you want to spare your PATIENCE, TO SAVE YOUR TIME, and to prolong the life of your STRAP. I'm a grower; / had to. Hence this buckle fixture. The WORKEASY TRADE MARK.



Ask your commission man for it.
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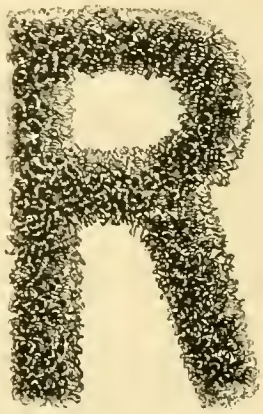


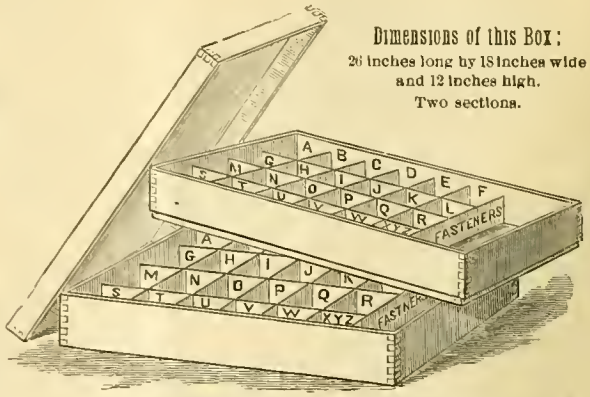
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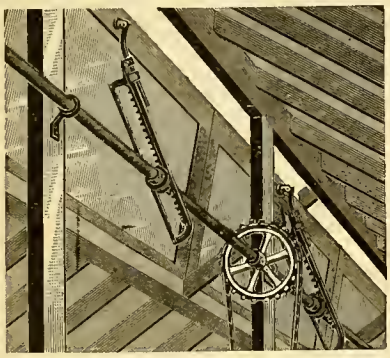
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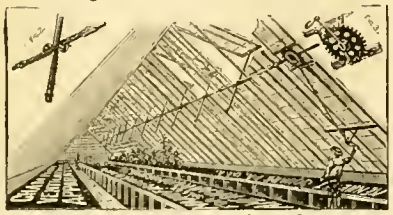
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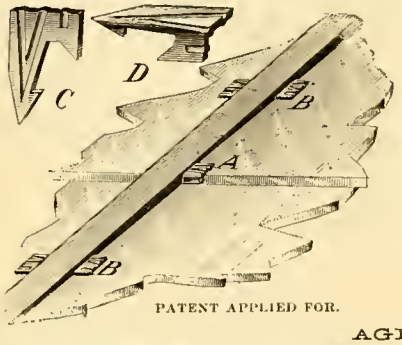
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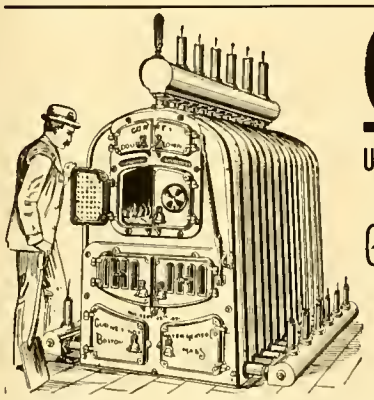
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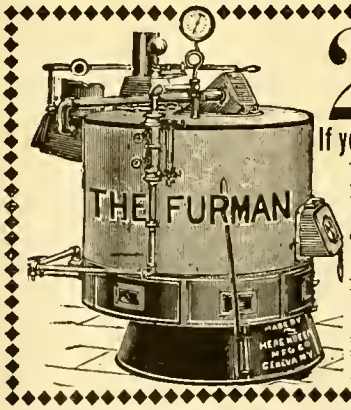
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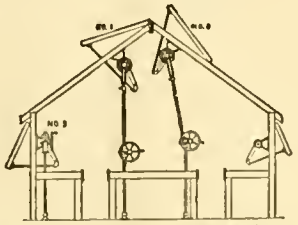
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The "Seventeen-year Locust."

Replying to T. M. and others, the following circular, issued by the U. S. Dep't. of Agriculture under date of May 1, gives the desired information.

The fact that the Periodical Cicada, or so-called "17-year Locust," is to appear in two great broods the present season is stated by a number of newspapers to have been announced by the U. S. Department of Agriculture, and these statements have caused some unnecessary alarm among those who do not understand the exact nature of the insect or who confound it with true locusts or so-called "grasshoppers," owing to the somewhat careless newspaper wording. The Department has made no such public announcement the present year, although the Cicada chronology published by Professor Riley in Bulletin No. 8 of the Division of Entomology in 1886 predicted an extended appearance of the insects in 1894.

The Entomologist of the Department has been interviewed on the subject and states that the damage done by these insects is, as a rule, quite immaterial, consisting in the slight cutting, breaking, and deadening of the terminal twigs of fruit and shade trees by the females in the act of laying their eggs. The injury becomes serious only when the insects are exceptionally abundant and oviposit in young nursery stock.

According to Professor Riley's chronology given in his first report on the Insects of Missouri (1868), two broods are due in 1894, and the insects will make their appearance during the last week in May. Brood XII is composed of the 17-year form (*Sep endecim*), and its last appearance was in 1877. It then occurred in the immediate vicinity of New York, Brooklyn, and Jersey City, and on both sides of the Hudson River as far north as Troy, in portions of Connecticut, New Jersey, Pennsylvania, Virginia, and the District of Columbia. Seventeen years previous to 1877 the insect was recorded in North Carolina, in Dearborn County, Indiana, and in Kalamazoo County, Michigan. The last three localities, however, were not substantiated by reports received in 1877. In all the localities above mentioned, Cicadas may be expected during June of the present year. Brood XVIII is of the thirteen-year race (*tredecim*), and as with other 13-year broods its range is in the more Southern States, rather than in the Northern part of the country. Its last appearance was in 1881, when it occurred in southern Illinois, throughout Missouri, with the exception of the northwestern corner, in Louisiana, Arkansas, Indian Territory, Kentucky, Tennessee, Mississippi, Alabama, Georgia, and North and South Carolina.

The larvæ, which live underground and feed to some extent upon the roots of plants, gradually rise to the surface of the ground when nearing full growth, and from about May 20 to June 1 they begin to make their appearance above ground in the nymph or pupa condition. They crawl up the trunks of trees, cast their skins, and the winged insect comes forth. The adults are prevalent for five or six weeks, and, as above stated, do some little damage to trees and shrubbery by puncturing them for the purpose of egg-laying. The eggs hatch in about two weeks and the young larvæ drop to the ground, which they enter to begin their long subterranean life.

The Entomologist of the U. S. Department of Agriculture will be glad to receive during the present season any accurate locality notes of the appearance of these insects, as he has been for many years engaged in mapping the exact distribution of each brood as it appears.

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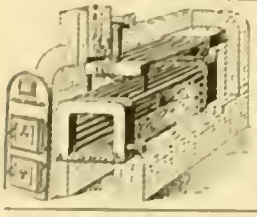
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Send for price list and samples and we know you will give us an order.

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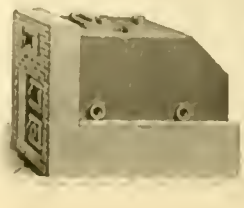
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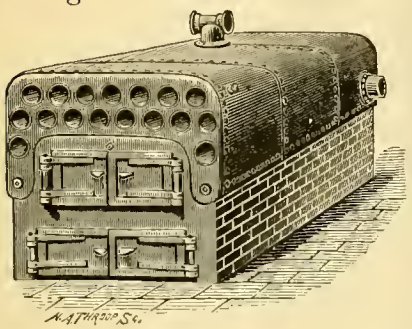
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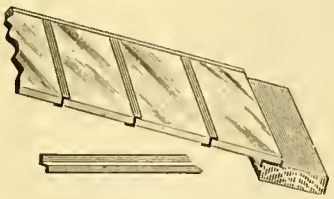
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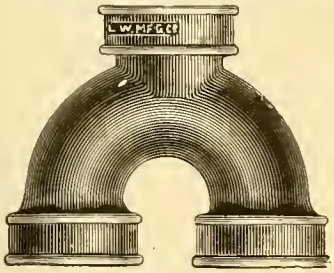
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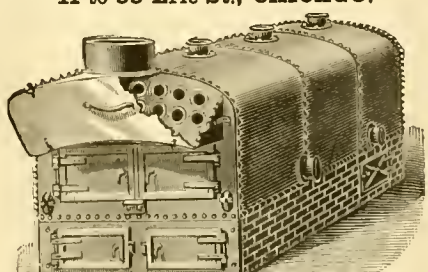
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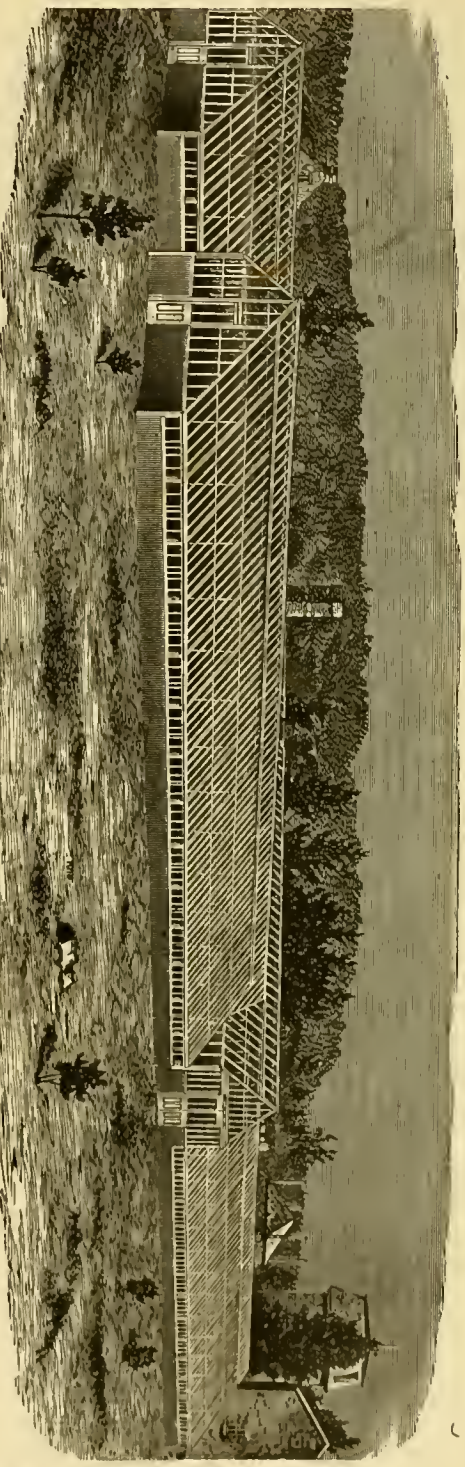
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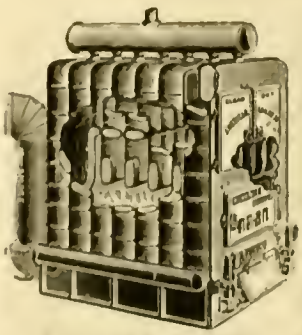
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Vol. IX. **CHICAGO AND NEW YORK, JULY 5, 1894.** **No. 318**

THE AMERICAN FLORIST

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The Tenth Annual Meeting

OF THE

Society of American Florists

WILL BE HELD AT

ATLANTIC CITY, N. J.,

AUGUST 21, 22, 23 & 24, 1894.

Members may remit the annual dues ($3.00) to the secretary prior to the meeting, thus avoiding the crowd and relieving the officers on the opening day. Badge for 1894 will be sent by mail to those who remit in advance of the meeting.

Intending members can obtain any information wanted by addressing the secretary.

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J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

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PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Wholesale Flower Trade in New York and Boston.

Few who have not come into direct contact with New York's flower market have any adequate conception of its extent and importance. For fine roses and other forced blooms in the winter season, quality and variety being considered, it is unquestionably the greatest cut flower center in the world. This has all come about within a quarter of a century and there are no special indications that it has yet reached or will soon reach the zenith of its growth.

On account of the peculiar and varying conditions under which much of the business is conducted and the very general disinclination of individuals to supply statistics regarding their own trade, it is not possible to furnish anything more than approximate figures regarding the gross value at wholesale of the annual output of flowers which are marketed through the different channels existing in New York City; but with the data in hand, carefully compiled from various trustworthy sources, a conservative and fairly accurate estimate places the amount of the wholesale cut-flower trade of the past year at $1,200,000. Of this, more than $800,000, or fully two-thirds of the entire amount, including the choicer grades of flowers and nearly all the roses, passes through the hands of the dozen and a half commission houses, large and small. The commission men have practically no opposition outside of their own ranks, and the value of the stock sold by contract or by peddling to the retail stores or shipping direct to out-of-town buyers from the greenhouse is comparatively small, probably considerably under $50,000.

The market near 34th street ferry does not seriously conflict with the business of the commission dealers, for the trade here is all done at a very early hour in the day. The stock consists largely, in the summer months especially, of the coarser varieties and quite a percentage of the buyers are of a class which cut but a small figure in the following of the commission men. This market is the great outlet for Long Island growers mainly, and has increased rapidly from a very humble beginning to an enormous enterprise. There are about one hundred and fifty stock holders and thirty outsiders who lease stands. The aggregate annual sales here cannot be ascertained with any degree of accuracy but the amount is variously estimated by those in a position to judge, all the way from $300,000 to $400,000.

The past season has not witnessed the growth in receipts for flowers which has been characteristic of each successive year heretofore. This could not be expected, considering the depression in every other direction. That there has been no apparent falling off should be a good cause for congratulation. Prevailing prices in several important lines, notably chrysanthemums, violets and Easter lilies, and to a lesser degree in roses, have been lower than in previous years, but the quantity marketed, averaging probably from twenty to twenty-five per cent. more than last year, has so increased the gross receipts that the total money realized is believed to be fully up to the record. In short, financial results have been as large as in the preceding year but more stock has had to be handled to do it. Carnations have proved an exception to the prevailing rule and are credited with a considerable advance in value from the previous season. In bulbous stock there has been a decided falling off, tulips suffering most. The business of shipping cut flowers to a distance has been on the decline for some years and dealers are being forced to depend more and more on the local market for their trade. In the estimates given above no account has been taken of the trade of Brooklyn, which is quite an item of itself. Many Long Island growers find an outlet for their goods in Brooklyn and do not figure in New York trade.

The wholesale trade of Boston while quite large is not and never has been controlled to any great extent by the commission men. Many of the conditions prevailing here are peculiar and do not exist in any of the other large markets. The section of the city in which a prosperous retail flower business may be conducted is limited to a very small area. Within this district the growers coming from out of town on the various railroads in the morning find it easy to make the circuit of all the buyers, and this fact together with the opportunities thus enjoyed for meeting each other daily and gossiping over their business has always been a powerful factor in perpetuating the old custom of peddling from store to store and making the efforts of the commission men to get control of the stock and systematize the business fruitless to a great extent.

A careful estimate of the volume of the peddling business places its value for the past year at $185,000. The commission dealers do about $160,000 of cut flower trade, but they also handle supplies of all descriptions which makes quite an addition to their business. The Growers' Co-operative Association, which has been established for over two years, is composed of growers who formerly carried their goods from store to store but now come together in a market every morning on a plan similar to that conducted at 34th street ferry in New York. About $145,000 is the estimated value of the flowers sold here in the past year. This amount does not represent the entire cut of all the growers leasing stands here, for quite a number of them carry a part of their stock direct to the stores. The retail dealers in Boston have got into the habit of having the flowers brought to their

door for inspection and selection and they do not take kindly to any method which makes it necessary for them to go out and seek for their stock. Most of the prominent retail dealers are growers as well, and sell a considerable quantity of cut bloom grown at their own establishments, certainly $25,000 is not a high figure for this item.

It appears therefore, that the value of Boston's wholesale cut flower trade is more than $500,000 annually. It is not likely that it has increased any during the past year. Prices on roses have averaged lower than ever before but there has been probably a sufficient increase in amount of stock marketed to fully compensate for the shrinkage resulting from lower prices. The shipping trade here has, as in New York, been gradually forced to narrow down its borders until now it is confined mainly to New England points and is as such, almost entirely in the hands of the commission men, who act as a sort of exchange for these out of town parties supplying them with goods they require and receiving in return consignments of such goods as they may have in surplus stock.

Hardy Flowers for Midsummer.

After the roses are past and gone, the prevailing tone in gardens is a monotone of green or gray. The florists' flowers and annuals give a little relief here and there, but after all the surface of the country is barely signal-lit by the beacons of floriculture. In shrubs particularly the scarcity seems almost painful, I will therefore give a pretty full list of such as occur in my notes, as flowering over a wide range of country—mostly at the north. There may be some synonymy among specific names, and the florist will do well to look it up in the new edition of Johnson's Dictionary or in Nicholson.

TREES AND SHRUBS.

Actinidia polygama (Cl.),
Abelia rupestris (S.),
Æsculus parviflora varieties Æ. macrostachya,
Andromeda (?) ligustrina,
Aralia chinensis,
Cornus Kosua,
Cornus sericea,
Cornus sibirica,
Ceanothus Americanus,
Callicarpa Japonica,
C. Americana,
C. Americana fructo alba (S.),
Cytisus capitatus,
C. nigricans,
Catalpa bignonioides, C. speciosa,
Cephalanthus occidentalis,
Clethra barbinensis,
C. alnifolia,
Cladastris tinctorin (N.),
Castanea pumila, etc.,
Clematis (Cl.) Jackmanii and hybrids, C. Sieboldii, C. Thunbergii, C. fulgens hybrida, etc., C. Virginiana, C. viticella venosa, C. paniculata, C. crispa, C. coccinea, etc.
Cistus laurifolius (S.),
Calluna vulgaris,
Decumara barbara (Cl.),
Elæagnus longipes, etc.,
Erica tetralix, E. vagans,
Diervilla trifida, and sessifolia,
Deutzia scabra,
D. crenata and varieties, D. Watsonii, Pride of Rochester, etc.,
Genista tinctoria, G. dumetorium,
Hovenia dulcis (S.),
Hydrangea arborea, Quercifolia,
H. radiata,
H. paniculata (early varieties),
H. vestita varieties, H. Japonica varieties, H. Thunbergii, and H. hortensis varieties,
Hedysarum multijugum (S.),
Hypericum aureum, H. fasciculatum, H. prolificum, H. calycinum, H. Moserianum,
Itea Virginica,
Ilex species,
Indigofera Dosua, Jasminum officinale (S.),
Kœlreuteria paniculata,
Lespedeza bicolor,
Ligustrum Ibota, etc.,
Magnolia glauca Thompsonii,
Maackia Amurense,
Philadelphus laxus speciosus,
Potentilla fruticosa,
Rubus Nutkanus, odoratus and tomentosus fl. pl.,
Rhus Cotinus, etc.,
Rhododendron (Azalea) arborescens, R. viscosa, R. optima, and hybrids of R. mollis,
R. punctatum, maximum, m. album and hybrids.

Rosa foliolosa, R. grandiflora, R. g. multiflora (Cl.), R. g. Engineer, R. arvensis, R. a. capreolata, R. Andersonii, R. setigera, R. Wichuraiana, R. Carolinensis, R. microphylla, etc., Mrs. De Graw, Dinsmore, Pride of Washington, Mrs. John Laing, etc.,
Schizophragma hydrangeoides (Cl.),
Syringa Japonica,
Stuartia pentagyna, S. pseudo camellia,
Spiræa discolor varieties, S. sorbifolia, S. Japonica, S. Bumalda varieties, S. Douglassii, S. Fontuneii, S. atro sanguinea, S. Tobolksii,
Tecoma grandiflora, T. radicans (Cl.),
Tilia argentea, T. petiolaris,
Viburnum nudum, V. macrocephalum, V. Nepalense,
Zizyphus vulgaris (S.),
In the above list N. is North, S. South, Cl. Climber. Now just imagine these gathered together in one place; don't you think there would be an exhibition? but there is more to come in the following:

HERBACEOUS PLANTS.

Achillea millefolia rosea, A. serrata fl. pl., A. tomentosa,
Anthemis tinctoria,
Aconitum barbatum,
Antirrhinums,
Alyssum argenteum, A. rostratum,
Agrostemma coronaria,
Allium azureum, A. cernuum, A. Moly,
Alstrœmeria aurantiaca,
Althæa (hollyhocks),
Aralia racemosa,
Artimesia Ludoviceana,
Asclepias incarnata varieties, A. tuberosa, A. quadrifolia, A. verticillata,
Begonia Evansiana,
Baptisia leucantha,
Buphthalmum speciosum,
Belamcanda sinensis,
Cassia Marylandica,
Catananche cœrulea and C. alba,
Cimicifuga dissecta, C. racemosa,
Campanula persicæfolia, C. alliarifolia, C. grandiflora, C. glomerata, C. Dahurica, C. latifolia, C. macrantha, C. pyramidalis, C. Trachelium, C. Van Houttei, C. carpatica, C. turbinata, etc., etc.,
Clematis recta,
Coreopsis lanceolata, C. palmata, C. erecta, C. grandiflora, etc., etc.,
Cypripedium spectabile,
Centaurea macrocephala,
Centranthus ruber,
Crucianella stylosa,
Delphinium formosum, D. Chinense, D. hybridum, D. consolida, D. Cashmirianum, etc.,
Dianthus cruentus, D. deltoides, D. dentosus, D. arenarius,
Digitalis tormentosa, etc.,
Dracocephalum altaicum, D. Ruyschianum,
Echinops sphœrocephalus,
Erigeron glaucum, E. speciosum,
Eryngium alpinum,
Euphorbias,
Gaillardia grandiflora, etc.,
Galium boreale,
Geum coccineum vars.,
Gypsophylla acutifolia, G. paniculata,
Galega officinalis,
Hemerocallis species,
Hydrophyllum Canadense,
Helianthus rigidus, H. multiflorus,
Inula glandulosa,
Iris Kœmpterii varieties,
Kniphofias, early varieties,
Lathyrus latifolius alba, etc.,
Lychnis species,
Linum flavum,
Lotus Japonicus, etc.,
Lindelofia spectabilis,
Liatris spicata,
Lysimachia thrysiflora, etc.,
Lythrum salicaria varieties,
Lilium giganteum, L. longiflorum, L. Brownii, L. formosanum, L. Kramerii, L. candidum, L. elegans, L. Canadense, L. superbum, L. Hansonii, L. Wallacei, etc.,
Morina longifolia,
Myosotis palustris, M. semperflorens,
Monarda didyma, M. fistulosa,
Micromeria rupestris,
Mimulus cardinalis,
Melissa officinalis variegata,
Œnothera fruticosa major, Œ. Missouriensis, Œ. speciosa, Œ. Frazerii, Œ. Youngii,
Onosma taurica (S.),
Ostrowskia magnifica,
Pentstemon pubescens, P. diffusus, P. confertus, P. spectabilis, P. ovatus, P. barbatus, P. Torreyii,
Phyteuma obiculare,
Phlox carolina, P. glaberrima, P. suffriticosa varieties,
Potentillas,
Polemonium humile,
Rudbeckia laciniata,
Rhexia Virginica,
Sidalcea candida,
Scutellaria species,
Scabiosa caucasica, S. graminifolia,
Sedum Douglassii, S. lydium, etc.,
Senecio Japonica,
Spiræa aruncus, S. filipendula, S. palmata, S. ulmaria, etc.,
Stachys lanata,
Stylophorum diphyllum,
Statice latifolia, etc.,
Stokesia cyanea,
Tunica saxifraga,
Teucrium Chamædrys,
Thalictrum species,
Trifolium pavonicum,
Tradescantias,
Thermopsis Carolinensis,
Viola cornuta varieties,
Veronica spicata, V. incana,
Yucca filamentosa,
Verbascums,
Aquatics: Nymphæas, Nelumbiums; Orchids: Platanthera species, etc.

This list might be still further lengthened, but a proper regard for your space has admonished me to suppress very many species and varieties. There is enough however, to show that the summer garden need never be sombre.

JAMES MACPHERSON.

Trenton, N. J.

DO YOU WANT a list of trade organizations, both national and local, with names and addresses of principal officers, time and place of meetings and other information? You will find such a list in our trade directory and reference book for 1894. Price $2.00.



THE BEACH AT ATLANTIC CITY, N. J., WHERE THE CONVENTION OF THE SOCIETY OF AMERICAN FLORISTS IS TO BE HELD, AUGUST 21 TO 24.

Sweet Peas at their Best and for Everybody.

Flowers do not, like diamonds, get their value from their rarity. The more beautiful they are the more they are intended to be universally enjoyed. The highest mission of a flower is to have some skilled hand develop it at its best, and then some other benefactor put it, in its most perfect form, within everybody's reach. Everybody has heard about the improved sweet pea, but the day is just dawning when everybody can have the sweet pea at its best.

My trip to California was not to see how a hundred acres of sweet peas would look in a great blanket of bloom, but to see whether the varieties which Mr. Eckford is producing by the packet could there without deterioration be produced by the pound or hundredweight. It was of no concern to me where or how the old common and inferior sorts were grown, for they will hold their own under ordinary conditions. But Mr. Eckford's best work is now being put up in very small parcels. And the first year's trial of them in this country hardly gives more than a suggestion of what they are. And the demand has increased so slowly that, outside of the seed growers, it has been a question whether the fancy prices paid and the meagre results realized made them worth the trouble to any but a few specialists. Success with them has been too small to give them headway in this country, and there was danger of the public tiring of hearing about their beauty when so few of them were to be seen. The trouble was not merely with the introduction price of them, but there was the great uncertainty of their germinating and amounting to anything until acclimated here. It has required some trumpeting of their excellence to make even a few invest in them. And even now Mr. Eckford, in his last letter, tells me his friends have advised him to advance his introduction price from six cents per seed to five shillings. If he does our seed growers will be the only ones who will pay the price, and they would need but a few seeds each to start their stock with, for after the first year they increase rapidly. In that case Mr. Eckford would be like the young artist whose wife told him that if he would not charge but a quarter as much for his pictures he would sell twice as many. With this very limited English supply it has been a matter of great interest to turn to California and see what they could do. I feel a very warm place in my heart for Mr. Eckford and his splendid work, and if I could incidentally help him to find a way to make money faster, as a reward for his patient and skillful work, I should be glad to do so. But I feel a great deal more interest in our American flower lovers; and, as Mr. Eckford probably already suspects, I would do all I could to put his latest and best novelties into our growers' hands, for I certainly want them as expeditiously as possible to make our great flower public happy. His dear old Scotch blood is a little too slow for us. And now that our California growers are finding that they must plant as early as October, Mr. Eckford cannot please them better than to send his stock right along as soon as he harvests it. Indeed, since he has his splendid reputation all made, and what he wants is probably material reward, I state here, what I have suggested to him, and what I am now, since my California trip, more convinced of than ever, that the place for him to get his novelties grown so as to supply the trade and remunerate himself is in California. It has proven by winter freezing and harvest rains to be a hazardous crop in England, and every year seems to bring a shortage of some sort. The advantage in favor of California would be seen in everything, soil and climate there being reliable factors and there being no question now about honest, skillful work, and in two years any of his novelties could be grown to supply all demand. Such a variety as the Emily Henderson illustrates how quickly a large stock can be put on the market at a price that in the aggregate would bury the fancy priced sealed Eckford packets out of sight, and yet be within popular reach.

Now I suspect that even some seedsmen and florists will say this talk about improved sweet peas is "Much ado about nothing." Why, an improved pansy means a blossom three inches long, and an improved chrysanthemum means a huge advance in size. The finest expanded Eckford sweet pea is not so very large, but the increase goes into more than one blossom on a stem as well as into size. Even double the size of the blossom, and at the same time double the number of blossoms on a stem, and it rivals the pansy. But I will admit that there is some ground for skepticism and disappointment in regard to improved sweet peas. As I suggested in my last article, this flower is such an exclusive inbreeder that unless the tendency to rapid reversion is met by the most careful selection of seed stock and the highest culture in one quarter the time it took Mr.

Eckford to develop it it will run back.

What is the sweet pea at its best? Begin with any one of the old varieties. You have a limp kind of a flower with a heart shaped standard about 1⅛ inches in width, the general texture of the blossom being such that a midday sun shrivels it, giving it a lank look. In a high grade Eckford you have a standard expanded into nearly circular shape, about 1⅜ inches in diameter, with a wavy fullness that gives it a still more generous look, and a substance that defies the noonday sun. The wings too correspond with the standard. No amount of development will make a coarse flower of the sweet pea. Its very fragrance indicates grace and refinement. To offset any gross tendency it puts its increase into more blossoms on a stem, and the aggregate makes a great advance in size. But it is not in palpable substance alone that the Eckfords excel, but in the delicate and beautiful character given in the colors and tints of the finest sorts. Among the bunches which I showed to-day at the Springfield rose show I could see people attracted by the new soft bluish tint of a bunch of Emily Eckford, which seems prettier this year than last.

About seventeen of the Eckfords, so far as introduced in this country, have the largest expanded form. Of course this size and form require as skillful treatment and as rich ground to bring them to their best as pansies do. Even with seed that has the greatest possibilities in it every florist knows and every amateur will find out that sweet peas, like every other high grade flower, do not push forward into the best competitive merit except under those conditions of culture which win prizes for other flowers. Even if we get the very best seed from California it still remains for good work to be done to show how good it is.

What guarantee have we of first class seed from California? Let me describe the conditions under which the largest grower is producing this seed, for I am confident he is setting the pace for the others. A foundation has been laid in a long experience at vegetable seed growing. The large houses need no introduction to these growers, for, with their immense acreage of seed almost wholly contracted for before harvested from year to year, the reliability of their general work is to be presumed. But then in onions and cabbages and lettuce enthusiasm does not rise much above a commercial temperature, while I found about the same enthusiasm in growing the seed of this flower by the five, ten, thirty and hundred acres that I feel over my thousand feet of double rows. I found that kind of young blood at work that not only is alive for commercial success, but alert and ambitious for the finer points that must decide the merits of such a flower. The grower himself should be a flower "crank," and his foreman must be of that finer fibre that reads the texture and tint of a blossom at a glance, and I was glad to travel over those blooming acres with just such workmen. I found their trial grounds planted with stock direct from Eckford. Then the natural conditions. One must see that heavy black soil that lies four feet deep in the Santa Clara valley to understand how during the rainless season such crops can be grown. It will bake like an adobe brick, yet worked at the right stage it is soft and friable, and is heavily cropped year after year without manure or any fertilizer. It even shows the presence of alkali. Usually the rainy season closes by the first of May. With an average rainfall before that time the crop goes through till harvest, making fine, plump seed, and not only do they harvest without rains, but their seed is dried in the continuous sunshine, and much of it never sees a warehouse till it crosses the Rocky mountains and is stored in some eastern seed house.

The coolness of the California nights in summer following their mild winter is extremely favorable for sweet peas, giving them a slower growth and a long season. Experience is teaching them to plant about October, so that the vines will be ready to bloom when the rains stop, and probably this will give a better matured and stronger seed than if planted later. At least all the root growth should be made by the time the dry season comes.

They plant just about as corn is planted. The rows are three to four feet apart, and two seeds are dropped about every eighteen inches. This makes a stocky growth, covering the ground, and as there are no winds or storms to beat them down they stand from three to five feet high, supporting each other. Of course no extra support can be given to such an acreage of vines. Before and at harvesting a great deal of seed is lost, or would be but for the practice of letting a "volunteer" crop come the next year from self sown seed. This is well enough for one year's succession, but the higher grade sorts can only be held up by the most careful selection of seed stock each year.

"Rogueing" is a very important matter, and the grower I refer to has "rogued" his crop three times this season. This consists of going through every acre and pulling up every vine that is not true to name. I saw this done so thoroughly that it did not seem as if a "rogue" remained, but it is a fact that a percentage of the best seed will revert. I sincerely hope every amateur will report to his seedsman just how his seed comes into flower, that he may both aid the grower and hold him down to strict thoroughness. I do not believe Mr. Eckford himself can give us truer seed stock than we can get from California of the largest, finest sorts if all the growers follow out the line of work I saw in my visit.

Of course this branch of seed growing could easily and wretchedly be overdone by multiplying acres and doing ignorant work on them, and it would be fatal to the present popular "fad" in this flower. But just as there is always "room at the top," so will that grower reap a permanent success who keeps pace with the latest improvement in sweet pens and holds each variety before him as a work of art, and makes a science of seed growing. The California growers will be glad to have the list of varieties weeded out, for the California sun at midday burns every blossom which does not have good substance, only the standard being affected, and marring the beauty of the fields in bloom.

I must say a word again in closing by way of protection for the sincere effort which our growers will make to improve their seed stock and hold it up in quality. Our seedsmen have got to economize at some point, and they are watching closely the grower's figures to see how much can be saved at that end. And here is a seed they are handling by the hundredweight and ton. Fifty or a hundred dollars saved on a ton of sweet pea seed is a tempting item. But every worthy patron of the flower trade would, if he had been behind the scenes, as I have, say "Let that fifty or one hundred dollars be a premium in the grower's favor to put into extra 'rogueing' and careful selection of seed stock." At that point where seedsmen compete with each other on gaudy catalogues they are lavish in their outlay. But the grower knows how they will figure if they hear of an increase in the acreage of sweet peas, and how they will estimate the probable yield per acre. I believe the only partiality I feel in the matter is that of one amateur among many, who wants the best seed, and expects to depend largely on California for such seed as will give the finest exhibition flowers. If the seedsmen want to scale the prices down to the lowest commercial bottom on the old varieties, or the twenty or so ordinary sorts, they may dicker all they please, for those varieties are as easily grown as mustard seed. But the day of sweet pea exhibitions has come. The relative position of this flower among other first class flowers will now turn on twenty or more of the finest sorts, and such novelties of merit as are yet to be introduced. My greatest anxiety at this time is that this, being a seed of bulky weight and a field grown crop, the down scaling of wholesale prices will make the grower feel he is working for commerce instead of an appreciative floral public who are watching his work with great interest. I have perfect confidence in the work which I saw done by the growers, and I plead with them to maintain graded prices, such as would foster the most careful work on their part. I think they fully understand that Primrose will not pass for Mrs. Eckford, nor any halfway reverted stock for the splendid types which Mr. Eckford has given us.

W. T. HUTCHINS.

Plant Shipments.

The suggestion of a correspondent in the FLORIST of April 12 that purchasers of plants should pay in advance, i. e. that the money should accompany the order, brings up another view of the case which I do not think has received the attention it deserves, and that is the condition in which plants should reach the purchaser. From my own experience and observation it does not seem to me that sufficient oversight is given to the packing department; that the packers, while they may intend to always perform the work faithfully, get careless and the result is vexation and loss to the customer. When a box of plants comes by express and upon being opened the earth about the roots is found so dry it literally falls away, leaving the roots exposed; and when ferns in particular are in the order and they never recover from a drying, though they do not always show it at first, the buyer is not particularly happy if he has sent the money with the order; he must nurse the plants along as best he may and instead of being able to fill his orders promptly, he must try again, or keep his customers waiting. The writer sent to an old house issuing a gaudy catalogue for some plants not obtainable elsewhere and sent the money, never having dealt there previously. The package, when it came, was not even marked plants, and the earth was absolutely dust dry. It was weeks before the plants could be gotten into a growing condition. This is no solitary case. When one pays $1.50 for a 6-inch pot of Adiantum Farleyense and $2 for a fine specimen of Gleichenia dicarpa and $1.50 for the same of Gymmogramme Japonica, and because the packer failed to thoroughly wet the plants, see them gradually die away one frond after another as well as most all the balance of the order, he cannot help feeling that sui-



THE BOARD WALK ALONG THE BEACH AT ATLANTIC CITY, N. J., WHERE THE CONVENTION IS TO BE HELD, AUGUST 21 TO 24.

ficient attention is not paid to wetting plants before they leave the packers hands. One does not like to make claim for damage, though sometimes compelled to do so, but that better satisfaction might be given with a more careful oversight is indisputable. During winter months or when express cars are heated very hot from the locomotive unless plants are thoroughly wet the moisture evaporates in the hot car and the recipient is doomed to disappointment. It may be desirable to put large advertisements in the magazines and to expatiate upon how customers are pleased, but the best advertising is that obtained free of cost where a customer is satisfied, and the most detrimental if he is not.

The dry paper so often wrapped about the ball of earth helps extract the moisture unless thoroughly wet, and the house which does not give careful attention to that detail loses in the end, and those who do it will gain new customers steadily. The cost of wetting the plants thoroughly before packing is nothing, their condition upon arrival is in a very great measure dependent upon its being done, and when a buyer gets dry plants once or twice he is pretty likely to send future orders elsewhere. F. C. CURTIS.

The Park System of the City of Cleveland.

The City of Cleveland has during the past year made great progress in park extension. A commission has been appointed, composed of Chas. H. Bulkley, Pres't., Amos Townsend, John H. Parkhurst, Robt. Blee and Chas. A. Davidson, with F. C. Bangs, Sec'y, C. D. Klock, Sup't, and C. W. Pratt, Jr., Chief Engineer.

The commissioners now control about 635 acres, of which Gordon Park, the gift of the late W. J. Gordon, contains 180 acres. This park fronts on Lake Erie, and is a beautiful diversified piece of ground. It contains much natural beauty, fine native timber, which has been well cared for. Trimming out has not been neglected and as a consequence the trees have retained symmetrical proportions and there are many good specimens of their types, including beech, linden, elm, ash, oak, etc. In the border plantations native undergrowth is luxuriant, while in the center a noble meadow opens out to the view, round which many combinations of effective groupings of trees and shrubbery can be observed. The park as it stands to-day proclaims the donor a man of taste and of public spirit.

The Doan brook gulch between Gordon and Wade parks has been purchased by the commission and contains about 180 acres; the distance is 3½ miles. The character of the ground is picturesque, being a ravine averaging about 500 feet in width, a brook meandering through the bottom, and in many parts covered with fine timber, much of which fortunately has been in the hands of protectors of natural beauty, and has thus escaped the hands of the desecrator. It is proposed to construct through this ravine a parkway connecting the two parks. The work will be of an expensive character, as a number of bridges will be required for creek crossings, and all filled streets crossing the gulch will be tunnelled.

Wade Park contains about 75 acres and is a beautiful undulating piece of ground, rich in natural woods, mostly clothed in natural undergrowth, and the drives and walks are picturesque.

The commissioners are now negotiating for property on the Doan brook gulch extending from Wade Park south-easterly 5½ miles to Shaker heights for an extension of the parkway in that direction. They have also purchased 80 acres in Brooklyn and 100 acres on the west side bordering Lake Erie to be called Perkins Park. This is finely situated and is characterized by a beautiful ravine, and a fine Lake bluff well clothed with native trees and shrubbery.

A boulevard through Brooklyn, Newburg and Warrenville is also part of their plan for a magnificent system of parks and boulevards which when completed will give Cleveland precedence over cities less fortunately situated in point of soil, natural growths and topographical advantages.

The commissioners have $1,000,000 from the sale of bonds, $700,000 of which has been set aside for land purchase, leaving $300,000 for improvement, a modest sum for a scheme of such importance. The yearly levy will only provide for maintenance. They do not despair, however, but that their city will furnish the thews and sinews when needed for such a work.

J. A. PETTIGREW.

Park System for Essex Co., N. J.

Essex County, New Jersey, is to have an extensive park system. Under a law recently passed a board of five commissioners has been appointed as follows: Cyrus Peck and Stephen J. Meeker, of Newark; Edward W. Jackson, of Belleville; Frederick W. Kelsey, of Orange, and George W. Bramhall, of South Orange.

The commissioners are to serve two years, without compensation, and "shall

consider the advisability of laying out ample open spaces for the use of the public in such county, and shall have authority to make maps and plans of such spaces and to collect such other information in relation thereto as the said board may deem expedient, and shall, as soon as conveniently may be within the term aforesaid, make a report in writing of a comprehensive plan for laying out, acquiring and maintaining such open spaces." They may spend $10,000.

Mr. Fred. W. Kelsey, of Orange, was the originator of the movement that has resulted in the above action, and as he is now one of the commissioners and is much interested in the project he will undoubtedly see that the work is pushed to fruition.



Coming Exhibitions.

TORONTO, ONT., July 18-19. Annual flower show Toronto Electoral District Society. J. P. Edwards, Sec'y, 17 Washington Ave.

BOSTON, Sept. 5-6. Annual exhibition of plants and flowers Mass. Hort. Society.

CHICAGO, Nov. 3-9. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.

NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex MacLellan, Sec'y, Ruggles Ave.

BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt Manning, Sec'y, Horticultural Hall.

PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y. 103 Howard St. Pittsfield.

ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y. 4101 Pennsylvania Ave.

INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.

PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists Club. Adam Kolbanke, Sec'y, L.B. 375, So. Denver, Colo.

PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.

WORCESTER, MASS., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.

TORONTO, ONT., Nov. ——. Chrysanthemum show Toronto Gardeners and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.

MONTREAL, Nov. ——. Chrysanthemum show Montreal Gardeners and Florists Club. Fred Bernet, Sec'y, 62 Aylmer St.

SPRINGFIELD, MASS., Nov. ——. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 Dwight St.

MILWAUKEE, WIS., Nov. ——. Chrysanthemum show Milwaukee Florists Club. A. Klokner, Sec'y, 270 Grand Ave.

HAMILTON, ONT., Nov. ——. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.

Chrysanthemum Notes.

The last ten days have been exceedingly hot in this vicinity, and very trying for plants that have just been set out, especially those that were taken from flats and their roots broken up. A good syringing once or twice a day will be found to be very beneficial, it will not only help along the plants that have not yet got hold, but will prevent all from wilting. When you syringe during such hot weather give the walks and woodwork a good wetting, for the evaporation will be productive of a good growing atmosphere.

The watering must now be done with great care and judgment and any places that may be too wet must be avoided until they dry out a little. And another thing unless the hose is in the hands of a very careful man the soil will be washed over toward the back side of the bench or into the walks. In our wanderings during the past winter we chanced to see at one of the places that we visited just the thing to aid one in preventing this. It consisted of a small piece of tin or sheet iron nailed to a stick about two feet long, the tin being curved into nearly the shape of a scoop shovel. The end of the hose was then fastened to the stick just far enough away from the tin so that when the water was turned on, the stream would strike in the center of the tin and run over the edges. This will reduce the force of the water when it strikes the bench and will to a great extent prevent the washing of the soil. In making this little implement it is far better to turn over the edges of the tin or iron, so that if you happen to strike the plants in running it through the rows it will not cut them off or injure them. The length of the stick will depend a great deal upon the width of the benches, but don't make it so long that it will be unwieldy or hard to turn in the walk.

There is a matter that must be thoroughly talked over at the meeting of the Chrysanthemum Society of America this summer, and that is the judging of the blooms and plants at the various shows. Upon the proper judging of the displays depends the success and the quality of the exhibits at the show to be held the succeeding year, for if they are poorly judged or judged upon a wrong standard the growers will go home dissatisfied, and are to a certain extent in the dark as to what constitutes a good bloom or plant, and will if in their opinion the practice of wrong judging continues, soon become discouraged. This matter is causing considerable discussion on the other side of the water, but they have, as yet, made but little headway. Every fall we hear more or less fault found with the judges at the different shows, but we have thought for some time that the fault laid more in the system, or really lack of system, in judging, than in the judges themselves. Every judge should have a scale whereby he can score every exhibit if he thinks it necessary, and then in case of close competition he can tell the defeated exhibitor by how many points he was beaten, and the judge that does this will have a good solid rock whereupon he can stand. This is now done, we are well aware by many of the prominent judges, but at present every one is working on his own scale or standard. Now, it seems to us that the growers and exhibitors of good blooms and plants ought to know as well as anybody what that standard should be, so let the matter be well thought over, and let every grower that is interested make it a point to attend that meeting, and help the society establish a standard that will be adopted throughout the country. There is no way, of course, whereby the societies can be made to adopt any standard, whatever it may be, but we have no doubt that if the Chrysanthemum Society of America adopts a scale of points all the societies and clubs holding exhibitions will announce in their schedule that the premiums will be awarded on that standard. So come, every one that can, and help draw up a scale as near right as it can be made.

ELIJAH A. WOOD.

West Newton, Mass.

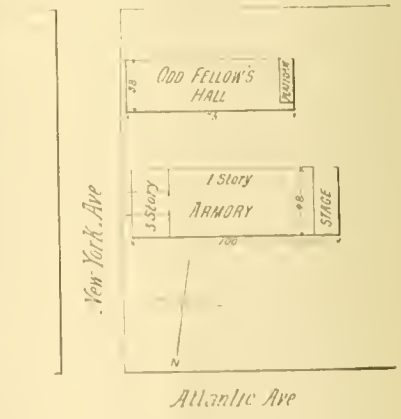
The Exhibition at Atlantic City.

Up to date of writing (June 28) the entries for the convention exhibition aggregate about 80 per cent. of the available space. There are quite a few prospective exhibitors who will probably have their applications in by the time this appears in print and there will consequently be very little space left. Those who have not yet sent in their applications should therefore lose no time in doing so.

The exhibits are varied in character and promise to make a most attractive display. Among the more prominent entries already filed may be mentioned the following:

Pitcher & Manda, plants and bulbs.
Henry A. Dreer, plants, bulbs, etc.
J. E. Jeffords & Co., fancy pottery.
Whilldin & Co., flower pots.
Daniel B. Long, photographs.
Powell Fert. & Chemical Co., insecticides.
W. Albert Manda, plants, etc.
Robert Craig, plants.
Charles D. Ball, plants.
Edward A. Seidewitz, plants.
Ellwanger & Barry, cut roses, phlox, etc.
J. H. McFarland Co., catalognes.
Pittsburg Clay Manufacturing Co., flower pots.
A. Blanc & Co., cacti and fancy pottery.
H. Bayersdorfer & Co., florists supplies.
A. Q. Wolf & Bros., ventilator and soil sifter.
Z. De Forest Ely & Co., bulbs and florists' supplies.
Frank L. Moore, shipping trays.
Hose Connection Co., Kinney pump.
Hitchings & Co., boilers and general exhibit.
Ben Chase, Jr., pot label and plant sticks.
E. Hippard, ventilator.
A. Hermann, florists' supplies.
James Wotherspoon, watering pots and fumigators.
Rose Manufacturing Co., sulpho-tobacco soap.
Henry F. Michell, bulbs and sundries.
Parmenter Manufacturing Co., flower pots.
Edward S. Schmidt, water lily blooms.

The exhibition will be held in the Morris Guards Armory on New York avenue, a very convenient location, being next door to the Odd Fellows' Hall where the meetings of the society are to be held. The armory is well lighted and convenient



in every way. Down the center of the hall it is proposed to run a large table 8 feet wide to be used mainly for plants. On each side of this a table 4 feet wide running the entire length for bulbs and miscellaneous. Alongside the walls on each side of the hall a table 4 feet wide running the entire lengths for florists' supplies and other exhibits of a similar character. On the stage and in front of the stage boilers and such exhibits may be appropriately and effectively displayed, while at the entrance end it is proposed to leave the floor and wall space to the right and left of entrance clear of benches for the display of ventilators, stakes, labels and other sundries not requiring tables for their proper display.



SCENES AT ATLANTIC CITY, N. J., WHERE THE COVENTION OF THE SOCIETY OF AMERICAN FLORISTS IS TO BE HELD, AUGUST 21 TO 24.

The exhibitors are making strong efforts to make this exhibition instructive and interesting to every one in the trade. All the latest novelties in plants and bulbs, baskets and other supplies, ventilators, boilers, flower pots, etc., will be shown and a walk through the exhibits will well repay any one. In fact no one can afford to miss making a thorough examination of everything on exhibition. It may mean many dollars saved in the future to have the information about these various matters stowed away for use when wanted. And if anything among the exhibit strikes you as something you want don't forget that the exhibitors require some encouragement for the time, trouble and expense of showing these things for your good. They naturally want to do business with you, and it will be doubly gratifying if you should see your way clear to give them an order on the spot. Many of the exhibitors will have spent weeks to make an up-to-date attractive display and it will be very disappointing to them if no good business comes from it. This exhibition is got up by the S. A. F. for the good of all concerned—buyers as well as sellers—and it is to be hoped all will be well pleased with the results. One thing seems certain, that the attendance will be better than ever before, not only because of the nearness of the Exhibition Hall to the meetings of the society, but also because this convention will have more florists attending it. Atlantic City in August, with its refreshing sea breezes, sea bathing, and general gaiety, will draw the crowd from the four corners as nothing else could have done.

For my last paragraph special emphasis. And on this point: Let nobody forget that it is business before pleasure. Don't go on the board walk and fool round first, last, and all the time. The convention is not held primarily for the purpose of letting the members enjoy themselves. The main object is the advancement of the business. We must have progression. If we stand still first thing we'll be going backwards. And while the essays, discussions, and general business of the society are very important yet it must not be forgotten that the exhibition will teach a practical lesson in progress—an illustrated panorama of progress we might say, teaching its lesson in the easiest, simplest, and most effective way possible—and no one should miss it on any account whatever. There will be plenty of time for enjoyment after the business end has been properly attended to.

Entry blanks may be obtained of the undersigned. Address 1025 Arch street, Philadelphia. Those intending to exhibit should lose no time in putting in their applications.

G. C. WATSON,
Supt. of Exhibition.

Philadelphia, June 28, 1894.

Chicago to Atlantic City.

The Chicago Florist Club has secured a special low rate to the S. A. F. convention at Atlantic City, over the Pennsylvania railroad. Train leaves Chicago at 3 p. m. Sunday, August 19, passing over the Allegheny Mountains in daylight and reaching Atlantic City Monday evening. Florists in the west and northwest who wish to join the party are cordially invited to do so. Berths may be reserved and further information obtained by addressing the chairman of the Chicago Club's committee, Mr. G. L. Grant, 322 Dearborn street, Chicago.

Beaufortia Splendens.

This is among the best of the bottle-brush plants, as these Australian shrubs are commonly called, and so beautiful is it, in common with several others of the same class as to make one long for the return of these plants to popular favor. All the beautiful hard-wooded greenhouse plants are now under a cloud but I hope the time is not far distant when we shall see them more generally grown.

The neat habit of this Beaufortia and the fact that it will flower freely in a small state are points in its favor, but still it is by no means the only desirable member of this class, as mention may be made of metrosideros, melaleucas and callistemons, one of the best of the last being C. rigidus, a large growing kind that requires a large house or conservatory for its full development, and when this can be afforded it the large clusters of flowing crimson-colored stamens make a goodly show and remain in beauty by a succession often kept up for months.

A light open soil seems to suit them. They can also be raised easily from seeds or cuttings, but the latter is preferable, as in common with most other plants those raised from cuttings flower more freely in a young state than seedlings.

A. J. E.



Carnation Notes.

Carnations do not require very much attention at the present time, so I took a week off and went with the B. P. O. Elks to Atlantic City, and I can't resist the temptation to tell all carnation growers to do the same in August. Atlantic City is not in the carnation belt, but that is all the better. It is a place where you can lie on the sand and watch the ocean and forget the time of day, the day of the week and the date of the month.

The attractions at Atlantic City are so varied that all, no matter what their tastes may be, can put in a pleasant week, making the convention a combination of pleasure and business and rest, and go home refreshed, ready for the opening of the season. The hall where we meet is one of the finest, and away from all noise and commotion, so that we can hear the papers that are read and discuss them without annoyance. The exhibition hall is but two doors from the meeting hall, and I am sure there are none among us so perfect but that we would be benefited by rubbing elbows with the men we shall meet in those two buildings.

In the interval between sessions one can retire to the board walk (and there is no place in the world like that board walk to study humanity) and be fanned by the cooling breezes from old ocean. The bathing is superb, and nothing in the world will make you forget all about carnation rust, red spider and all other petty worries incident to carnation growing so quickly as to get into a bathing suit and battle with the breakers for an hour or two.

If one tires of the bathing there are fine yachts that can be had to take a sail out to the sea for ten or twelve miles, and you come back rested and ready for the session, bright as a dollar, providing you do not get seasick. There is some good sport to be had fishing on these yachts, and you can go home with true fish stories that you will have a hard time making your friends believe.

We Elks fell so deeply in love with the city that we shall meet there again next season. The S. A. F. being a nomadic association, may not meet there again for a long time, and my advice to all my fellow carnation growers is to attend this meeting. The committee on entertainment is arranging a very nice program, and as we are assured of an equally nice intellectual program it is a good chance to kill two birds with one stone.

ALBERT M. HERR.

Carnation Mrs. Fisher.

Since my article on carnation Mrs. Fisher appeared, I have received a number of letters asking me whether I had plants for sale. I would state here that I have not. If I had it would be announced in the advertising pages of the FLORIST. One correspondent says that he grows Mrs. Fisher, but that red spider got the best of them last winter and he could not therefore use the cuttings. Now it seems to me that this doctrine of not watering carnations overhead is breeding mischief. I syringe mine quite copiously at least once a week, and never saw any bad results. On the contrary the plants seem to enjoy it. If there are any open blooms I always cut them before syringing, for water rots them, and that is the only bad result of watering carnations overhead. If I am not ready to pick the flowers and the plants need watering, I remove the nozzle from the hose and let the water run between, when it is quite easy to avoid the open blossoms. Water will not adhere to the foliage of a healthy carnation anyhow, so I cannot see where any possible harm can be done. However I see great harm done by not syringing, and this harm is red spider.

This reminds me of another doctrine now exploded, but still believed in by the majority of amateurs, namely: Don't water any plant while the sun shines on them. This may be true with some plants such as Rex begonias, gloxinias and others, but those require shade at all times. I came across an amateur (?) lady florist once who had some plants standing on the sidewalk waiting for customers to take them away. The plants were all badly wilting, for the want of water. I asked her why she did not water them? "But how can I?" was her reply. "The sun is shining on them." "My dear madam," I said, "do you not see that you are already killing your plants by not watering them, what more harm can you do them?" Taking a watering pot, which stood near, I soaked them for her while she wondered: "Well I declare, I have always been told I must not water plants while the sun beams on them." The doctrine of not syringing carnations is a parallel. We are told not to do it, but I do not remember that I have ever been told what harm there is in it, aside from the one I have mentioned. I may be a little dense but I have often wondered that if it hurts a carnation to syringe it, why do the little slips stand it so well in the cutting bench? CHARLES EVERDING.



Planting Under Glass.

Now is the time for planting roses, etc., under glass. There are several different ways of doing this. Some drive nails at the end of the benches at the regulation distances apart, when a line is stretched from one end of the table to the other, and the planting is done to this line. Others use what is known as a marker, making a mark each way of the bed, and the plants are set at the intersections. A plan which has been in operation here for some time past, and which seems to be the most practical, and at the same time as simple as any, is to get a piece of lumber an inch or so square, as long as the width of the bed or table to be planted. Nail a piece, six inches or so long, securely across the end, making it what might be termed a T square. We usually measure off the distance asunder we wish the rows to be, along the front of the table with a lead pencil. We then get the necessary number of plants that we think will occupy the first row, and arrange them to suit our ideas, then make a pencil mark that can readily be seen where each plant strikes the T square. This will give a better idea than when stated in inches as to how far apart we wish the plants to grow. After we are satisfied about these important matters the rest is simple enough. We just lay our T square across the table, always being sure to have the stick on the same side the mark indicating where the rows or lines are to go, and wherever the pencil marks are, there goes a plant, and so on until the house is completed. Although the plants may not be *perfectly* straight, under this plan of operation, yet they will be sufficiently so for all practical purposes. Where our table is crooked, of course, our T square arrangement will follow the bend of the table. This, however, is of minor importance when we take into consideration the advantages that this plan possesses over all others which have been tried here.

Some would prefer to "spot" where the plants are to set, by the removal of a small quantity of soil, and have the plants removed from the pots before they are taken to the house to be planted; but I prefer to place them in position in the pots, as in this way there is less handling and consequently less danger of the drying of the roots or damage by mutilation. To facilitate arranging for planting it is always better to place the plants toward those already in position, as in this way it obviates the necessity of raising the T square over the plants every time it is moved for the next row. When field grown carnations are planted in their winter quarters in the fall, the spotting process would then be the best plan to adopt.

If I have not made myself sufficiently understood, I shall be pleased to further explain where I have not made myself clear. E. L.

Wood Ashes on Benches and Tarred Paper in Greenhouses.

The question is referred to me through the "Editor's chair," "Are wood ashes hurtful to plants on benches under potted plants if laid on the bench ½ an inch thick with a little sand sprinkled over them?" The answer is, there is nothing deleterious about wood ashes at all. They will do no harm to the plants in pots that are stood on them. But why use them? They bake up badly and make a poor medium for the purpose. Lake sand, river sand or bank sand is much to be preferred for the purpose, and if you are so peculiarly situated that you can procure neither of the above, then sifted ashes from the furnace pit are much better than the wood ashes.

The latter question is as worded, "Last fall when I built my house 16x50 I used tar paper and I found it very bad for the plants. Would it be good to take it out or would it not be so hurtful to plants the second year?" The inquirer does not say how he used the tarred paper—whether he used it between the boards of the wall of his house, or whether he lined the wall inside to keep the boards from rotting with the syringing and consequent dampness which must be an accompaniment of a greenhouse. Coal tar, which is the tar of what is known as tarred paper, is a most dangerous thing to use and is extremely hurtful to both plant and animal life. Compound of sulphur and hydrogen, which is tar, has its uses, but not where animal or vegetable life is expected to flourish. I can however assure the inquirer that in the second year much less hurtful effects will be found from it and in time, say three or four years, the effects of the tar will have entirely evaporated.

While on this subject I might as well say that I have seen one amateur and one

professional greenhouse man accept pipes, and have them put into their houses in this city, covered with a coating of tar. Poor creatures, they suffered far more than any sympathy of ours will ever compensate. The pipes were supplied by a local plumber, who, properly enough, had them tarred, but the idea of their being put into a greenhouse is too ridiculous.

I have advocated and practiced for the past 3 years, putting a small piece of tarred paper under lily and other pots when stood on old rose or carnation beds, and I say here it is a most excellent thing to do. The piece of tarred paper under the pot will seldom or never come in contact with the sun's rays, being cut to suit the size of the pot, and is entirely different from plastering up the side of house with it or putting it on the pipes.

WM. SCOTT.

Boston.

The first of the regular weekly shows at Horticultural Hall was held on Saturday, June 30, and was highly successful. There are still some very fine roses left, as was seen by the superb exhibits of M. H. Walsh, Hugh Williamson and James Comley, gardeners to J. S. Fay, Wood's Holl, W. W. Astor, Newport and F. B. Hayes, Lexington, respectively. J. Eaton, Jr., W. H. Spooner and others also staged quantities of roses, the larger display however being, as in the regular rose show, that from Wood's Holl. All the favorite old sorts and many of the newer ones were shown, and the quality of the blooms was of the best. The roses filled the long center table and overflowed on to the side tables, which were heavily loaded with extensive collections of hardy herbaceous bloom, native flowers, Kæmpferi and English irises, delphiniums, candidum lilies, foxgloves and campanulas, for all of which regular premiums were offered.

The larkspurs were especially good, the collections rich in variety and the spikes wonderfully large and perfect, particularly in those shown by N. T. Kidder, J. L. Gardner and J. S. Fay, which were awarded first, second and third prizes.

The displays of hardy perennials from N. T. Kidder, Shady Hill Nursery Co., and Rea Bros. were grand and the attention given them by the throngs of visitors was good proof of the rapidly increasing popularity of these useful plants. The potentillas, anthemis, lychnis, coreopsis, campanulas, pentstemons, œnotheras, etc., were all shown in good variety. Candidum lilies were abundant, also sweet williams, poppies and foxgloves. C. M. Atkinson, as usual, got all the first prizes on Iris Kæmpferi, which were shown by him in best form. James Comley had some good varieties of Cattleya Mossiæ in his miscellaneous collection.

At the Arnold Arboretum, Rosa anemonæfl ra looks exceedingly pretty now. Rosa Wichuraiana is just coming into bloom, nearly all the other sorts excepting R. setigera and Caroliniana being about gone; these late blooming species will last well into July, and are especially valuable on that account. A very attractive shrub is Ceanothus hybridus, recently received from Lemoine. The color is pale lilac rose, the flowers much larger and the spikes denser than in our white native species.

Rhododendron (Azalea) arborescens has been very fine this year. It is easily one of the most beautiful garden shrubs. Its magnificent clusters of large white flowers with crimson stamens and surrounded by rich foliage give it a beauty scarcely equalled by the best Ghent varieties.

Large masses of Asclepias tuberosa are being planted in the grounds. These vary greatly in color, coming in all shades of orange and orange scarlet, and make a great show. Mr. Dawson says he has never known Amelanchier Canadensis to bear fruit so heavily as it has done this year.

The cut flower trade has come to an abrupt close. The big city order for bouquets for the public school graduates was divided up as usual among quite a number of the florists, and with this final flare-up the season ends. There is not a big crop of roses coming in, in fact choice buds are scarce, but carnations are heaped up everywhere and any price, even as low as $1 per thousand, is accepted for them.

One of the most pleasing tributes to the memory of the late Louis Guerineau was the remark of Mr. Robt. Craig of Philadelphia, in referring to Mr. Guerineau's work at the World's Fair. "If everybody attended to his duty as that little man did there would be a very different story to tell about horticulture at the Fair."

The Newton Horticultural Society, cooperating with the citizens, are persisting in their crusade against the tent caterpiller with great success. The whole number of belts of eggs collected and destroyed this season was 57,050.

New York.

The great overstock existing a week ago has been relieved to some extent by the diminished production. Roses are plentiful enough, but those that are obtainable are of poor quality generally. That the end of the heavy glut had come began to be evident on Wednesday, when the wholesale men were gratified to have an occasional messenger from the retail stores in quest of stock. As these callers were in some cases those who had not made their appearance before for weeks it was plain that the scarcity was becoming general, and dealers were obliged to look beyond their usual sources of supply.

The new establishment of W. A. Manda at South Orange is getting rapidly into shape, the change made in its appearance during the past two months being almost incredible. There is a fine collection of hardy herbaceous, evergreen and deciduous stock in the beds outside, and in the greenhouses, which are already filling up rapidly, the display of choice specimens is very attractive.

The committee on revision of the by-laws of the Florists' Club, consisting of Messrs. Weathered, Allen and Young, met at Alderman Morris' office on Wednesday and had a long session, in which many important changes were adopted with a view to facilitate and systematize the Club's work, and these will be presented before the club for action at the next meeting on July 9. A large attendance is hoped for.

Thos. W. Weathered's Sons have on exhibition at their office handsome nickel plated models of their hot water heaters, which are beautifully done, and attract much attention. Mr. Charlie Weathered, when not at his office, puts in all his time at his suburban home, where the delights of boating, gardening and chicken farming are indulged in to his heart's content.

Mr. B. L. Elliott of Pittsburg is in town. He comes in another capacity from any of his former visits. The young lady in the case seems to enjoy the occasion as much as Ben does. Their friends all extend congratulations.

Mr. G. Herrmann reports a big sale of tobacco dust for greenhouse use this season. It is preferable to tobacco stems for many purposes.

The Cut Flower Exchange has recently paid a dividend of 10%.

Philadelphia.

George Magg of 21st street and Columbia avenue died Saturday, the 23d, after a few minutes illness. In answer to a call to come down to breakfast he arose and in walking across the floor was stricken down and died in about twenty minutes. The physician pronounced his disease to be fatty degeneration of the heart. Deceased was about 30 years of age and was apparently strong and healthy. We are informed his widow will continue the business.

An occasional funeral order or something for the seashore is about all there is in sight nowadays; the transient business has almost entirely disappeared, and the growers are gradually dropping out one by one. In a short time only those who make a specialty of the summer trade will be seen.

The hot weather has told on the roses, which are now very poor and quite disappointing to the few customers who are willing to pay for good ones. Becker is sending in a few fair La France, the first from his summer house; he also has some nice Marie Guillots. Sweet peas are very abundant, as are also carnations. "Sam" Pennock gets carnations by the wagon load, and Joe Groben, the boss fakir, buys them from him in five and ten thousand lots, using a furniture car to convey them away, and sometimes making two or three trips a day. They are sold on 8th street at from one to two dozen for 5 cents. Hollyhocks in all colors are now peddled about, bringing 50 cents to $1 per hundred flowers. Summer camellias they are called by some and white ones are largely used by the "crape pullers" in their funeral work.

Elwood Brinning has taken the establishment formerly run by the Tioga Floral Co. at Tioga and will conduct a general greenhouse business, growing cut flowers and bedding plants in their seasons.

A committee consisting of Messrs. Lonsdale, Burton, Craig and Kift visited Atlantic City a few days ago to perfect arrangements for the meeting in August. They found the large hotels unwilling to make concessions. In one or two instances, however, they were given encouragement. It is hoped also to have a list of large cottages, which are preferred by many to hotels.

There must have been a great overstock of bedding plants this season, or else the demand has not been as large as formerly. Seashore florists report having received samples of first-class stock, geraniums, coleus, alternantheras and the like out of pots, offered at from $1 to $2 per hundred. The stock was first-class in every respect, and it didn't come from Buffalo either.

Many growers say their carnations are dying in the field; the prolonged wet spell, followed by the extreme hot weather, caused the plants that were in low ground to damp off; from 20 to 30 per cent loss is reported.

Saturday night generally finds a lot of the boys at the club room; if any committees have work to do they will be pretty sure to attend a meeting on that night. The bowling enthusiasts and the pool sharps are also on hand, and a merry time generally is the result. It is astonishing the amount of latent bowling tal-

ent there is lying about. J. W. Colflesh gave an exhibition of what he could do in a game with Brown last Saturday night, and it was hard work for the champion to come out ahead, even with a large score. Messrs. C. Ball, Watson, W. Craig and plebeian John Smith are getting to be great pool players and will soon be able to give such post graduates as Anderson, Brown, Longinette, Crawford and others points; why don't the committee hurry up that tournament?

Chicago.

The general tying up of all the railroads centering here has interfered seriously with the shipping trade. Fortunately the amount of business done in this line at this season of the year is very light, consequently the losses sustained are not very heavy. Express companies refuse shipments over some roads absolutely and on all others only accept freight at shippers' risk. On shipments from local points up to July 2 there was little trouble, as the majority of the growers located north and west are on the North-Western Road, which up to that time had not been affected. To-day (July 3) however this road too is tied up, which is liable to shut off a good part of the supply.

Trade, however, is so extremely dull, that it takes but a very small supply to fill all demands, and if the majority of the stuff, by courtesy called roses, is shut out entirely it will be so much the better for the market.

It is useless to quote figures, as there are no settled prices for anything. The question now-a-days is not how much do I want, but how much am I offered.

Our local wholesale men have formed a Protective Association. This move had been contemplated for some time. A few days ago an organization was effected with Flint Kennicott, president, and George Klehm, secretary. The constitution and by-laws have not been given out for publication but the avowed purpose of the association is that of mutual protection in dealings with irresponsible parties in the trade. Other objects, if any, are for the present kept secret.

Worcester, Mass.

On account of the early season and the forwardness of the hybrids the rose show, which was originally scheduled for June 28, was advanced to June 21, in conjunction with the regular exhibition of that date. The way the public turned out for this show demonstrated very forcibly that the Queen of Flowers has not yet lost her hold. The hall was crowded from three o'clock to five with her enthusiastic admirers.

A pleasing feature of the exhibition was the very creditable displays made by the amateurs, who work under many disadvantages and are usually cramped for room to grow a sufficient variety to enter. But the amateurs were "right in it", to use a slang phrase, and did much to make the show the success it was.

There were a large number of entries in the cut flower class and they were nearly all deserving of first premiums; of the four prizes awarded, F. A. Blake secured first and Mrs. E. C. Burke second.

The call for the best display of Campanula Medium brought out but two competitors, but the good points in their displays made up for lack of quantity; A. A. Copeland was awarded first and Mrs. Henry Phelps second. Mrs. Thomas Ward received a first premium for a splendid stand of Dianthus barbatus and T. E. Fisher second. The pæonies made a beautiful display, the pink and white varieties being especially noteworthy; there were a great many entries, among these were O. B. Hadwen and T. H. Record who secured first and second respectively.

The roses were of course the center of attraction and made a magnificent display, especially the twelves and sixes. They were arranged on long tables in the center of the hall and were shown in long vases. All the exhibits were made up of good specimens of standard varieties, the foliage being unusually bright and clean. H. F. A. Lange and Edward Hale won first and second premiums in the order named for the best twelves, sixes and best stand. H. F. A. Lange also captured first for best basket with H. A. Ives second and F. A. Blake third. The display of moss roses was only fair, and gratuities were awarded to the following exhibitors: H. A. Ives, Mrs. Thomas Ward, Fred. A. Blake and Mrs. T. H. Record. Arba Pierce showed a nice display of Orchis fimbriata.

The market is packed jam full of A No. 1 flowers. Roses and carnations are coming in by the bushel and other stuff in proportion. We are getting rid of some of it and that is saying considerable. Wedding decorations are unusually scarce, in fact even the weddings have not been very numerous.

We are suffering very much from drought, and all outside stuff is showing very slow growth. SEEDLING.

St. Louis.

Several good rains during the past week have broken the protracted drouth and as a result vegetation has put on a brighter appearance. Carnations have derived great advantage from it, as they were commencing to feel the effects of the lack of moisture. All plants intended for stock have been improved likewise, it has within the past few years come to be recognized that it is unsafe to plant any stock out that is intended for future use, and trust to the rains to carry it through the season; so that the majority of the florists are prepared to water all stock planted out, and those that are not so fortunately fixed at present are making improvements in that line.

A good story is going the rounds in connection with the recent dry spell and water supply that will touch the hearts of a majority of the florists so it is given. It appears that one of the craft living in the northern part of the city was obtaining his water supply from the city mains, the amount used being measured by a meter; now it occurred to the meter during the height of the dry spell to break. The department upon finding that the meter had broken, calmly proceeded to put in a new one, and incidentally to charge the user twenty-five dollars for same, as is usual; the claim being in such cases that it is private property when put on your place. During the three or four days it took to get the new meter in working order, a straight connection was make to the mains, so as not to shut off the necessary water supply needed in the houses Now while some water had been used on the grounds when the meter was working it was discovered as soon as a straight connection had been made that the ground was exceedingly dry, and would stand watering day and night, which was accordingly given it; and by the time the new meter was in working condition quite a large piece of ground had been thoroughly irrigated.

A meeting was called by the picnic committee of all interested in the affair, and it was decided to hold a picnic at Meremec Highlands on the 25th of July, and a committee consisting of A. Y. Ellison, C. Young, Jules Benecke and Chas. Kunz appointed to formulate a program that would make the affair as enjoyable as possible for participants. A subscription list was started to defray the expenses of the premiums to be offered, which met with hearty support. The committee also reported that the most convenient method and arrangement for getting to the grounds had been found to be the use of the regular trains; the engaging of a special car as proposed necessitated leaving the grounds too early in the evening. The committee appointed to arrange a program have decided to have a list of athletic events, and a bowling match in the afternoon, and dancing in the evening.

The committee charged with making arrangements for attending the S. A. F. have seen the various roads and have found them, or rather their representatives, more stiff necked than usual. Without doubt, however, satisfactory terms will be made with the B. & O. people, as our treatment by them on the trip to Washington is favorably remembered. If possible arrangements will be made to join Indianapolis and Cincinnati on the way, so that pleasant company will be assured.

Mrs. M. D. Eggeling, whose business is located at Grand and Lafayette avenues, is erecting a palm house 60x24 feet, and also a carnation house 100x16 feet. We had the pleasure of going through the houses recently, and formed a well selected and well grown assortment of palms, pandanus and other decorative stock, as well as the usual collection of greenhouse and bedding stock, and all in the best of condition. R. F. T.

News Notes.

BLOOMINGTON, ILL.—W. F. Hempsted is building a house 24x50.

CUBA, N. Y.—Oldham Bros. have retired from the florist business.

EVANSVILLE, IND.—J. D. Carmody is adding a palm house 25x66.

WATERVILLE, N. Y.—Geo. Marshall will add 300 feet more glass this fall.

STILLWATER, MINN.—Wehring & Kuehn are building three houses 16x75.

DETROIT, MICH.—Geo. A. Rachham is building a new house 102 feet long.

ASHLAND, O.—A. C. Lampreeht is building a three-quarter span house 18x80.

KIRKWOOD, MO.—F. W. Ude, Jr. is building two new houses, each 20x100.

DUBUQUE, IA.—W. A. Harkett will soon build a short-span-to-the-south house 20x50.

PARK RIDGE, ILL.—C. Ehrhardt is building a house (short-span-to-the-south) 20x90.

PAINESVILLE, O.—The Storrs & Harrison Co. are building a range of new houses.

WALTHAM, MASS.—Wm. Silman & Son are building a three-quarter span house 13½x65.

CHATHAM, N. Y.—R. E. Shuphelt is connecting to his other houses a three-quarter span house 15x50.

JAMESTOWN, N. Y.—A. L. Thrall has opened a store at corner of Main and Third streets.

PANA, ILL.—Ticket agent Bradford, of the B. & O. R. R. will soon build a new greenhouse 20x150, to cost $1,000.

LAKE GENEVA, WIS.—Mr. Silas Button has withdrawn from the firm of Button Bros. & Co. and the business will be continued under the firm name of Frank Button & Co.

JANESVILLE, WIS.—Walter Helms has rented his greenhouses to Mr. Fred. Rentscher, of St. Louis, who will continue the florist business. Mr. Helms will still continue his seed business.

DENVER, COLO.—C. B. Wright is arranging to enter the business and is building a range of houses. The State Board of Agriculture has authorized the construction of a new horticultural hall at the Agricultural College.

SALT LAKE CITY, UTAH.—Mr. C. F. Pfau, has now moved on to his own property at the corner of Kensington avenue and Glen street where he will soon build three commercial greenhouses, each 20x120. The new buildings will be first-class in every respect.

HAMILTON, O.—Henry Haeffler is building three connecting span houses 20x100. Theo. Bock is adding a show house 15x72, two-thirds span, with row of side ventilators on one side and stationary glass on the other. John Lodder & Sons will soon begin building two connecting three-quarter span houses (short-span-to-the-south) each 108 feet long. One house will be 20 feet wide and the other 14 feet wide.

LOUISVILLE, KY.—The spring trade is about over in plants, and school commencements are also past. The trade has been very good considering the cold, wet spring and the hard times combined. Mr. Marrett, the successor of Rompen & Marrett, is building three new houses about 150 x20. He is fixing up his place in grand style. E. G. Reimers is remodeling three large houses for roses and carnations.

SEATTLE, WASH.—Mr. H H. Hindshaw, Curator and Landscape Architect of the Arboretum at the State University, has a gang of men at work clearing up the dead timber and stumps and getting the ground in shape for the projected arboretum. Many of the stumps are from 5 to 6 feet in diameter and it takes a charge of about 20 pounds of blasting powder to blow them into pieces that can be handled by one team. Work on the building has also been commenced.

HOLYOKE, MASS.—The Holyoke Horticultural Society held a rose show on June 14 and 15 at the Unitarian Church. It was the most successful show ever given by the society, there being about sixty exhibitors and over one thousand visitors. Prominent among the exhibitors were C. L. Burr, E. H. Howland, C. W. Ranlet, Dr. E. A. Reed and E. C. Taft. Several of the school children showed large and interesting collections of wild flowers. There is some talk of holding a fall show.

WORCESTER, MASS.—At a recent meeting of the directors of the Horticultural Society a communication was received from the New England Agricultural Society advocating the union of the exhibitions of the two societies in September next as was done last year. The departure, however, having proved somewhat unsatisfactory last year, it was voted inexpedient to accept the invitation, consequently the regular horticultural exhibition will be held at Horticultural Hall on September 6, 1894.

KANSAS CITY, MO.—The Western Association of Wholesale Nurserymen held its annual meeting in this city June 19. Twenty-three firms were represented. From reports made it appears there is no surplus of stock on hand but what can be marketed with a good year for the trade. Some loss of stock was reported in the south on account of the freeze last March. The officers of the association who were present were: President H. T. Kelsey, of St. Joseph; Vice-President R. H. Blair, of this city; Secretary and Treasurer U. B. Pearsall, of Fort Scott.

SPRINGFIELD, MASS.—The annual rose and strawberry exhibition of the Hampden Horticultural Society was held on June 19 and 20. Admission was free and a large crowd of visitors attended. The show, while not large, was excellent as to quality. The Miellez Horticultural Co. was the largest exhibitor of roses. Other choice collections were shown by E. H. Howland, Dr. E. A. Reed, E. Young, R. H Smith, L. D. Boyington, C. L. Simons and others. A. N. Pierson showed tea roses, W. T. Hutchins and L. D. Robinson, sweet peas; C. R. Miller & Co, palms; and B. L. Bragg Co., hardy perennials. The strawberries from A. B. Howard were very fine. The society will hold a special sweet pea exhibition.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—First-class propagator, 16 years' experience; state terms.
PERMANENT, care American Florist.

SITUATION WANTED—Young man to take charge; 15 years' experience; references.
FLORIST, care American Florist.

SITUATION WANTED—Young man, foreman or assistant, experienced; commercial or private.
ABILITY, care American Florist.

SITUATION WANTED—By experienced gardener as working foreman in good commercial or private place; married, age 31. Address J. E. S., care Girdwood, Phillips Square, Montreal.

SITUATION WANTED—By Sept. 1st, by a young man, age 22; 8 years' experience. Can furnish good references Address
W. C. MORLAN, Patmos, Mahoning Co., O.

SITUATION WANTED—By a sober and willing young man in a commercial place as assistant; good rose grower and design maker; best references. Address A B C, care American Florist.

SITUATION WANTED—By thoroughly educated landscape gardener and horticulturist, to take charge of some private or public place in Florida. Best of references. Address
W K, 1219 Christy Ave., Louisville, Ky.

SITUATION WANTED—By young man; life experience in all branches of gardening, both inside and out. Best of references. Private place preferred. Single. Address with particulars
J. MORRIS, 66 Beaver Hall Hill, Montreal, Canada.

SITUATION WANTED—A. E. Ingold, late manager Vaughan's Seed Store, 88 State St., Chicago is open to re-engagement in any first-class seed house, either wholesale or retail; five years at above store. For particulars app y A. E. INGOLD,
865 Hasll Ave., Chicago.

SITUATION WANTED—By a thorough practical gardener in private or commercial place; 13 years experience in growing roses, palms, ferns, etc.; German, age 27, married, no family; best of references; state salary. Address G. care C. Steshel,
1672nd St., Bay Ridge, L. I., N. Y.

SITUATION WANTED—By experienced rose grower, age 34 years, 12 years experience, as rose grower, or assists foreman (Phila. or east preferred). Can furnish best references as to ability and character. Address GUSTAVE DAHLSTROMI,
114 West Duval St., Germantown, Pa.

SITUATION WANTED—July 16 by competent florist single, age 24; 9 years experience; worked 3 years at Cemetery greenhouses, La Crosse, Wis. also had entire charge of 500 ft retail plant at Eau Claire, Wis.; best references. Would accept where I could after certain time lease, or buy on easy terms. Wages wanted, $25 per month, board to start.
F. N. QUICKERT, White Hall, Ill.

WANTED—A first class florist to take charge of about 50,000 feet of glass, as working foreman to grow roses and carnations; single man preferred; will pay good wages to right man Address or call
JOHN MUNO, Rogers Park, Cook Co., Ill.

WANTED—Partnership in a cut flower establishment; a thorough expert florist, life experience, limited capital, wishes to negotiate a partnership in a going business. Those wishing to introduce ability and would give sufficient inducement will find here a man that is seldom met with. Florists having any idea of taking a partner would do well to consider this offer. For fullest particulars address
JOHN THOMPSON & SONS, Louisville, Ky.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man.
WILFRED A. BROTHERTON, Rochester, Mich.

FOR RENT CHEAP—Greenhouses, stocked for cut flower growing J. H ALLEN, Summerdale, Ill.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about $75. VAUGHAN'S SEED STORE,
88 State Street, Chicago.

FOR SALE—2 large Bay Trees, round heads, 7 feet broad, 12 to 14 feet high. Shown at World's Fair.
VAUGHAN'S SEED STORE, Chicago.

FOR SALE—1100 feet of 4-inch cast iron pipe and fittings, as good as new.
MRS. GEO. WALDBAUER Saginaw Mich.

FOR SALE—Good florist business, good location; will sell at reasonable price, 3 doors west of Halsted St. P. M. SCHWARTZ, 292 W 12th St., Chicago.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE,
146 & 148 West Washington St., Chicago.

FOR SALE—Several good second-hand boilers, just the thing for greenhouses, for either steam or hot water heating, in first-class condition, and will be sold cheap. CLEVELAND STEAM BOILER WORKS,
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FOR RENT—A first-class commercial place in suburb of Chicago, containing 15,000 square feet of glass, well stocked with best varieties of forcing roses. Address RENTER
care Olsen & Hughes, 66 Wabash Ave., Chicago.

TO RENT—Five greenhouses, containing over 6,000 feet of glass, and heated with hot water, and well stocked with plants, on two acre lot (more land can be had if desired), about one acre in cultivation and well stocked with roses, hardy shrubs, dahlias, Magnolia grandifloras and other evergreens; cannas, tuberoses and other stock. The best stand in city of 80,000 inhabitants. Health unsurpassed; no chills and fever, or malaria and epidemics. Climate more pleasant than farther north, as we generally have good breezes. Address FLORIST, 555 E. Fair St.
near Oakland Cemetery, Atlanta, Ga.

For Sale or Lease.

Seven large greenhouses with several acres of ground, known as Beechview Nursery, Beechwood Avenue, Westwood, Hamilton Co., Ohio, near Cincinnati; with fine hot water heating apparatus, large cisterns, water tank and conveniences

Also if desired a 7-room dwelling house in first-class order.

F. H. MILLER,
No. 19, 21 and 23 West 7th St., CINCINNATI, O.

ASSIGNEE'S SALE OF GREENHOUSE PLANT.

The C A. Reeser Greenhouse Plant at Springfield Ohio, will be offered at Public Sale, Tuesday, July 10th, 1894, at 2 o'clock P. M.

This is one of the oldest and best established plants in the State, and is now in complete order and will be sold as a going business. At the same time there will be offered a Catalogue List and Order Sheets containing names of over forty thousand customers. Also a large stock of plants, seeds, pots and greenhouse implements.

Said plant consisting of four acres of real estate with all modern improvements, and a good and substantial residence thereon, is appraised at $7,340. Catalogue list is appraised at $1,250. Terms cash.

For particulars address

ALBERT H. KUNKLE, Assignee C. A. Reeser, SPRINGFIELD, O.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remembe it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Cleveland.

As the mercury goes higher the size of all ros s grows perceptibly smaller, so now in July they are, so to speak, out of sight. This is especially the case in Brides and Mermets. Of course that old salamander, the Perle, is in its element and the best tea rose in the market, while its rival, the Hoste, who distances it in the race for honors during the winter months, is "not in it" at all just now. Roses in general indoors have not been troubled so much this summer by mildew; this no doubt is because of the favorable weather we have been having; the nights keeping pace with the day time, being quite warm. This is unusual here on the lake, as the nights are generally much cooler and the ventilators being left open the first thing you find is a bad case of mildew on your hands.

Business has simmered down to the usual summer dullness, which means an occasional good order which is as an oasis in the desert. We will soon be sending in our weekly report something after the New York fashion, viz: The dullest week in the history of the trade.

The Lake Shore R. R. recently asked for bids to supply them with ten bunches of flowers to be placed in their dining cars every day for the next twelve months. The bunches were to be arranged of one kind of flower, that is not mixed flowers, and were to be rather under a medium size. The lowest bid was $2 a day, but we suppose that was not low enough, as a Chicago florist captured the plum! The question arises if he will make profit enough during the summer to pay the bare cost of the flowers through the winter.

The fancy bedding has been finished in the square. There are twenty-nine large designs representing the different corps badges of the G. A. R.

Mrs. E. C. Wilson had charge of the decorations recently at the Hollenden on the occasion of a banquet tendered the state senators by the different ladies' societies. It was given in honor of the passage of the Woman's Suffrage bill.

L. F. D.

Baltimore.

Ninety-two in the shade means something after the cold and wet of a few short weeks ago. No one cares to venture out except on the way to seaside or mountain, and as a consequence trade is very dull. Sweet peas are plentiful, and so, in fact, is pretty much everything else, and at extremely reasonable rates, one might almost say unreasonable, but for the fact that there really seems little money abroad to purchase necessaries, let alone such luxuries as flowers, unless at very low prices.

Well, the farmer must have his innings though the florist suffer, and it is fine harvest weather, apparently come to stay a while too.

How are the chrysanthemums? One of our prize winners says he has standards five feet high, and bush plants in proportion now. Most of the growers seem to prefer keeping "mum" about their plants, but no doubt a scout around among them will show improvement over last year's.

MACK.

Toronto.

The weather still keeps very hot, with an occasional shower, but the showers are scarcely numerous enough to keep pace with the extreme heat, and grass is beginning to scorch in exposed places. Bedding plants are however doing very well all round, and at their present rate of growth will soon cover the ground.

The Association turned out well for the afternoon "off" last Wednesday and indulged in a cricket match East vs. West. Mr. Chambers being an enthusiastic cricketer keeps a part of the Exhibition Park in specially good order for the game, so that the boys were able to show their science in good style. It was a most enjoyable afternoon.

The schools have been closing this week, and a little business has been done, but it was merely a flash in the pan, and one may say that the season is practically closed. Everyone who can afford it is seeking a cooler locality now.

E.

JACKSONVILLE, ILL.—Mr. Frank Heinl, the florist, has been nominated for county clerk by one of the leading political parties.

"I WOULDN'T PART WITH THEM IN MY BUSINESS FOR $300.00!"

So spake a prominent florist ere six months had elapsed in his use of a set of

Long's Florists' Photographs.

Others echo similar expressions. A cause and reason exists for hearing such expressions, and is flattering to the photographs.

DAN'L B. LONG, *Publisher,* **Buffalo, N. Y.,**

CORBREY & McKELLAR,
Wholesale and Commission Florists,
Phone Main 4508. 64 & 66 Wabash Ave., **CHICAGO.**
We are prepared to fill your orders with First-Class Flowers.
Give us a trial order.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.



Hardy Cut Ferns,
BOUQUET GREEN,
Laurel and Green Festooning, Wreaths, Etc.
SPHAGNUM MOSS IN ANY QUANTITY.
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A complete line of Wire Designs.

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SHIPPING ORDERS CAREFULLY ATTENDED TO.
OTHER SPECIALTIES:
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SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.
Mention American Florist.

CUT SMILAX.
15 cents per String.
JOSEPH E. BONSALL, 308 Garfield Ave., Salem, O.

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The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
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SEEDS, BULBS AND ALL FLORISTS' SUPPLIES.
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METS, FLORISTS' VASES.
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
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FOLDING PAPER BOXES for CUT Flowers.
Made from heavy, Manilla lined, Strawboard. Shipped flat, packed 100 in a crate.
CHICAGO FOLDING BOX CO.,
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TELEPHONE MAIN 4718.

Wholesale Markets.

Cut Flowers.

NEW YORK, June 30.

Roses	.50@ 2.00
" per 1000	$2.00@$5.00
" Beauty,	2.00@12.00
Carnations	.50@ 1.00
" per 1000	$3.00@$3.50
Valley	2.00@ 2.50
Harrisii	4.00@ 6.00
Sweet peas, per 100 bunches	$1.00
Smilax	6.00@ 8.00
Asparagus	25.00@35.00
Adiantum	.75@ 1.00

BOSTON, June 30.

Roses, Niphetos, Gontier	1.00@ 3.00
" Perle, Sunset	1.00@ 3.00
" Bride, Mermet	2.00@ 8.00
Carnations	.25@ .50
Harrisii	6.00@ 8.00
Candidum	1.00@ 2.00
Lily of the valley	2.00@ 3.00
Stock	.50
Sweet peas	.10
Candytuft	.50
Adiantum	1.00
Smilax	12.00@15.00
Asparagus	50.00

PHILADELPHIA, July 2.

Roses, small	2.00
" large teas	3.00@ 4.00
" Beauties	8.00@15.00
Carnations	.50@ 1.50
Valley	4.00
Smilax	10.00@12.00
Asparagus	50.00
Harrisii lilies	4.00@ 6.00
Sweet peas	.50
Cornflower	.25@ .50
Cattleyas	35.00@40.00
Adiantum	.75@ 1.00

CHICAGO, July 2.

Roses, La France, Meteor	3.00@ 4.00
" Kaiserin	3.00@ 4.00
" General assortment, per 1000	$5@$10
Carnations, long	.25@ .60
" fancies	1.50@ 2.00
Pæonies	3.00@ 4.00
Harrisii	8.00
Candidum	1.00@ 3.00

CINCINNATI, July 2.

Roses, Beauty	10.00@15.00
" Mermet, Bride	3.00@ 4.00
" Niphetos	4.00
" Perle	2.00@ 3.00
Carnations	1.00
Alyssum	.15
Sweet peas	.50@ 1.00
Valley	2.00@ 3.00
Smilax	15.00
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, July 2.

Roses, Perles, Niphetos, Wootton	2.00@ 3.00
" Bride, Mermet, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" La France, Albany, Hoste	2.00@ 3.00
" Beauty	5.00@15.00
Sweet peas	.15@ .25
Carnations, long	.50@ .75
" short	.50
Adiantum	1.25
Hollyhocks, asters	.50
Smilax	15.00
Ferns, common, per 1000	$1.25

BUFFALO, July 2.

Roses, Beauties	10.00@15.00
" Mermet, Bride,	3.00@ 5.00
" Meteor	3.00@ 5.00
" Perle, Gontier, Hoste	3.00@ 4.00
" Cusin	3.00
Carnations, long	1.00@ 1.25
" Daybreak, Wm. Scott	1.00@ 1.25
" short	.60@ .75
Valley	3.00
Sweet peas	.35
Auratum lilies	10.00@15.00
Smilax	15.00@20.00
Adiantum	1.25
Asparagus	50.00

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Successor to PECK & SUTHERLAND,
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Bride,
Bridesmaid,
Meteor,
Sweet Peas.
BURNS & RAYNOR,
49 West 28th St., NEW YORK.

SPRING, SUMMER,
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In dull season and busy season.
All the year round.
Roses, Lily of the Valley
and all other choice stock
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THOS. YOUNG, Jr.,
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Roses Shipped to all points. Price list on application.

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Careful Shipping to all parts of the country.
Price list on application.

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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS, Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

Mr. C. CROPP is now in Paris.

VISITED CHICAGO: Mr. S. Y. Haines, of Minneapolis, Mr. George Urquhart, vice-president Plant Seed Co., St. Louis.

SWEET PEAS.—A very interesting article by Rev. W. T. Hutchins on sweet pea seed growing in California appears on page 1159 of this issue.

MR. F. D. WOLFROM, manager of the Huntley, Cransom & Hammond Seed Separators, exhibited their No. 6 Monitor machine in operation at the warehouse of the Steele, Briggs, Marcon Seed Co., showing it to about 50 interested representatives of the Seed Trade Association, at the late Toronto meeting.

BROMUS INERMIS.—Mr. Geo. C. Watson, Philadelphia, calls our attention to a special bulletin issued by the U. S. Department of Agriculture May 23, in regard to this valuable forage plant. A small wood cut showing the different parts of the plant illustrates the text and will be found useful for catalogue purposes. Mr. Watson notes the trials made by the Experiment Station at Berkeley, Calif., and of the great value of the plant for the arid regions of the west. The bulletin may be had free from the Department by any seedsman interested.

Free Seed Distribution.

The Farmers' Club held a meeting in Am. Institute, West 38th street, New York, June 12. Among other matters discussed was that of government seed distribution.

P. Meyers of Belleville, N. J., entered into a vigorous defense of the Department of Agriculture. He said that he had, through the kindness of the Congressman of his district, received several consignments of seeds from Washington, and they were every bit as good as those he had been in the habit of paying his good money for. He regarded the government distribution of seeds as being right in the line of public policy.

Mr. Fowler interrupted him to ask whether any of the seeds he had received from Washington had been of a kind that he could not have purchased in the old fashioned way, and Mr. Meyers confessed that they had not. Where upon Mr. Fowler asked what obligation the government was under to buy seeds for folks who could afford to pay for them. Mr. Myers did not appear to have looked at the matter in that light, for he sat down sudden.—*N. Y. Herald.*

Catalogues Received.

The Horticultural Co., Boskoop, Holland (L. C. Bobbink, Hoboken, N. J., American representative), roses and nursery stock; Levavasseur & Sons, Ussy (Calvados), France, nursery stock; The Tokyo Nurseries (F. Takaghi), Komagome Denchu, Tokyo, Japan, Japanese bulbs, plants and seeds; John Laing & Sons, Forest Hill, London, Eng., tuberous begonias; same, hardy perennials; Dammann & Co., San Giovanni a Teduccio, Italy, bulbs and plants; Wm. Bull, Chelsea, London, Eng., plants; A. Blanc & Co., Philadelphia, Pa., Japanese flower pots; J. J. Grullemans & Son, Noordwijk, Holland, Dutch flower roots, etc.; Kroeschell Bros. Co., Chicago, improved greenhouse boiler; Robert Buist, Philadelphia, Pa., turnip seeds; Polman-Mooy, Haarlem, Holland, Dutch bulbs.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

IMPORT BULB PRICES.

ROMAN HYACINTHS, July 15th.
LILIUM HARRISII AND DUTCH BULBS.
FREESIAS Ready, Select Bulbs, per 1000, $6.00.

NOW is the time to order. We are quoting the lowest rates of the season.

☞APPLE GERANIUM SEEDS, new crop, per 100, 25c; per 1000 $1.25.

NEW YORK: 26 Barclay Street. VAUGHAN'S SEED STORE 146-148 W. Washington St., CHICAGO.

Mention American Florist.

FOR SALE. Now ready for delivery.

BERMUDA SPICE LILY, Imp. Amaryllis Johnsonii, 7 to 9 in. bulbs, $20 per 100; $170 per 1000.
FREESIA REFR. ALBA, 5-16 in. in diam., $2 50 per 1000 in lots of 5000.
" " " Seed, $2 00 per 1000.
GLADIOLUS SHAKESPERE, 2½ to 3 inches in diam. $6.00 per 100; $50.00 per 1000.
ZEPHYRANTHES ROSEA, FLORIBUNDA, ATAMASCO, large bulbs, $2 per 100; $15 per 1000; $1 per 100; $8 per 1000
NERINE SARNIENSIS, Guernsey Lily, large flowering bulbs, $8 per 100.
CALLA BULBS, 4 to 6 inches at crown, $7 per 100. Best var. FRENCH CANNAS, $6 per 100; $40 per 1000.

Above prices are for delivery in New York, thence by Express or otherwise at purchaser's cost. C. O. D. from unknown parties.

R. H. JAMES, Columbia Farm, ST. GEORGES, BERMUDA.

HERMANN'S SEED STORE,
413 EAST 34TH STREET,
Near Long Island Ferry, NEW YORK.
JUST IN, NEW CROP OF
Primula chin., Cineraria hybr.
We are now ready to book orders for
LILIUM LONGIFLORUM, ROMAN HYACINTHS, LILIUM HARRISII, LILY OF THE VALLEY, ETC.
Write for prices, it will save you money.

BARNARD'S
FANCY STRAIN OF
PRIMULA, CINERARIA, CALCEOLARIA.
READY NOW 50c. Per large trade pkt.
Our low Import Prices on Bulbs hold good yet.
W. W. BARNARD & CO., 6 and 8 N. Clark Street. CHICAGO.

August Rolker & Sons,
136 & 138 W. 24th St., P. O. Station E. New York,
Supply the Trade with
Bulbs, Seeds and Requisites.

Pansies Worth Raising.
There is money in them. They have proved it again, even in these hard times. NEW SEED, perfectly ripe, READY NOW.
One package, 1-8 of an ounce.....$1.00
Five packages.....4.00
Cash with order.
CHRISTIAN SOLTAU, 109 Grant Ave., JERSEY CITY, N. J.

EXTRA PANSY SEED.
MAMMOTH SUNBEAM STRAIN.
A grand collection of giant flowering varieties, very large, of perfect form and choice colors; carefully selected, better seed plants this year than ever; to receive very high praise from my customers. No finer strain offered anywhere; florists should sow of it.
Trade pkt. (about seeds, 25c; 3 pkts. 60c; 6 pkts. $1.00. A pkt. of the new Monkey Face pansy with every $1 order.
JOHN F. RUPP, Shiremanstown, Pa.

ZIRNGIEBEL GIANT PANSIES.
Owing to favorable weather, have been magnificent this season. Never before have we obtained such size and colors; and as usual, wherever exhibited, have eclipsed everything else, receiving also the most flattering testimonials from the leading florists and seedsmen all over the country.
New seed ready now of both the Giant Market and Giant Fancy in trade packets of 2,000 and 500 seeds respectively at one dollar each, with practical directions for growing pansies. Also plants for sale later on.
DENYS ZIRNGIEBEL, . . . NEEDHAM, MASS.

Pansy ★ Seed.
The JENNINGS STRAIN of high grade Pansy Seed. New crop now ready. Saved with special care from only the very finest varieties and (warranted) first-class in every respect.
THE JENNINGS XX STRAIN.
The cream of Pansies. Grand colors mixed. pkt., 1500 seed, $1.00; 1 oz. $8.00.
The Jennings Strain, finest mixed, pkt. $1 00 about 2500 seed; 1 oz. $6.00; 3 ozs $15.00. No skim milk in this strain. (They are just as good as I can make 'em). To my old patrons I would say they are a big improvement over last season—more variety and finer colors. The best strain for florists either for winter bloom or spring sales; all large flowering.
Black Dr. Faust, finest. pkt., 2500 seed, $1.00
Finest Yellow, black eye..... " " 1.00
Pure White, the best..... " " 1.00
Victoria, bright red..... pkt., 1000 seed, 1.00
All my own growth of 1891. Half pkts. of any of the above 50c. Please send money orders or registered letter. Cash with order. Address
E. B. JENNINGS, Wholesale Pansy Grower, Lock Box 254. SOUTHPORT, CONN.

Roemer's Superb Prize Pansies.
The finest strain of Pansies in the World.
Introducer and Grower of all the leading Novelties.
Catalogue free on application.
FRED ROEMER, SEED GROWER, QUEDLINBURG, GERMANY.

CROPP'S
RIESEN PENSEE
neue ernte fertig mitte Juni. Blumen über 3 zoll im Durchmesser, schone Form, meist helle Farben, von unübertrefflicher Qualität. 1000 Korn $1.00; 5000 Korn $4 in Briefmarken oder Post Anweisung.
CARL CROPP, Erfurt, Germany.



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LUNEBURG, GERMANY,
Special Cultivation of
PANSIES.
4 Medals awarded World's Fair.
☞ Price list on application.

LILIUM HARRISII.
Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, NEW YORK.

CHEAP CUT FLOWERS

may be had from bulbs in winter and spring. We now offer bulbs at prices that you can buy and pay for them. When in bloom they will be a great help to you to offer cheap flowers to the public. They occupy very little room in your greenhouses, can be forced very quick, nearly three times as quick as other stuff, and produce flowers of very gay colors at a time when other stuff is rather pale and dull. Bulbs in bloom can be sold at a price in the reach of every one.

References as to the quality of our bulbs we can give you to nearly all the leading Bulb Importers in the United States.

Ask for our 1894 Catalogue.

☞ **Please ORDER as SOON as possible.**

SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE, near Haarlem, **HOLLAND,**

5,000,000 FREESIAS

Buy FIRST HAND. We will deliver Freesia Bulbs, all charges for transportation paid, as follows:

3-8 to 3-4 inch per 1000, $4.00
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Liberal discount on larger lots. Send for our price list.

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Bulbs AND Plants

We are now prepared to quote lowest possible prices for next July, August and September delivery.

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TOBACCO DUST. Per 10 lbs 50c; 25 lbs $1.00; 50 lbs $1.50; 100 lbs $2.50. ☞Sample FREE.

Vaughan's Seed Store, Box 688, Chicago.

CYCLAMEN SEEDS,

European strain.

LILIES OF THE VALLEY,

Berlin and Hamburg Pips.

FLOWER SEEDS for Fall delivery.

METAL WREATHS.

All at Import Prices.

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Prices for New Crop made on Application.

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LILY OF THE VALLEY BULBS.

OSCAR KNOPFF & CO., Erfurt, Germany.

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Very BEST Hamburg and Berlin qualities, 3 years old, for forcing.

For particulars apply to

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61 Broadway, NEW YORK.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Forest Lawn Cemetery, Buffalo.

I owe a big "vote of thanks" to everybody's friend, William Scott of Buffalo, because, when wife and I dropped in on him Saturday evening after the Nurserymen's convention at Niagara to ask what we could best see in the one hour we had got for Buffalo, he promptly said in big capital letters, "Go to Forest Lawn cemetery." Well, we went; and we were glad we did, for the run through this superb resting place made us almost willing to abandon the sunny banks of the Susquehanna and move to Buffalo, that we might finally await the last trump amid such loveliness. Would that the broad taste that makes this burying place a lovely park, with no suggestion of morbid grief or heathenish display, might spread to many other cities! Not a fence; not a hedge; no set "lots;" just memorials in granite and marble amid God's memorials in tree, flower and turf, hill and dale!

Friend Scott was up to his ears in business; in fact, he hadn't ears enough, for while one was glued to a telephone, the other was trying hard to listen to "us" and the several customers who were receiving attention. It was pleasant to get where moss couldn't gather anywhere, and were glad of the visit!

J. HORACE MCFARLAND.

Bermuda's Charms.

Under date of June 25 Mr. Burt Eddy writes from Hamilton, Bermuda, as follows:

"I have at last found the place where one can get change and rest: 'The landlord gets the change and the waiters get the rest.' The fried chicken and the tuberoses of the south have lost their charms to me forever. I did not know I was so fickle. The beauties of these islands (scenic I mean) suggest rhapsodies. The 'dusky belles in the bosky dells' compare with those of the Orient. The gustatory delights fill the bill also: Bananas in the back garden and fresh on the table like ordinary 'garden sass,' dates, figs—and more than that: Palms, ficus, agaves and yuccas for ordinary lawn plants, and a night blooming cereus opening now at my window. But what could one expect in Bermuda?"

A Floral Column.

Noticing in a daily press dispatch from St. Joseph, Mo., that on Decoration Day "A beautiful floral column, surmounted by a white dove, was unveiled and dedicated to the unknown dead of the Platte purchase," we wrote to a florist of that city for fuller information about it. He replies: "The floral column consisted of a stake driven into the ground and an inverted wire bell frame fastened to the top; a draciena was placed inside and the frame covered with vines and mixed flowers, with a dove perched on one side. Where the unveiling came in I do not know."

WHENEVER you want anything pertaining to the trade, and do not find it offered in our advertising columns, write to us and we will take pleasure in assisting you to find what you want.

If you use straps you want to spare your PATIENCE, TO SAVE YOUR TIME, and to prolong the life of your STRAP. I'm a grower, / had to. Hence this buckle fixture The WORKEASY TRADE MARK



Ask your commission man for it.
FRANK L. MOORE, CHATHAM, N. J.



New Catalogue (No. 4) containing over 1000 Ornamental Cuts for Florists' use, such as envelopes, letter-heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upward. Price of Catalogue 25c. (deducted from $1.00 order).

A. BLANC, ENGRAVER for FLORISTS, Philadelphia, Pa.

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May and June Propagated.

MRS. ROBT. CRAIG, HARRY BALSLEY, MRS. J. G. WHILLDIN, EDA PRASS, GLORIOSUM, V. H. HALLOCK and IVORY, $3.00 per 100.

ERMENILDA. W. R. SMITH, THE QUEEN, W. G. NEWITT and NIVEUS, $5.00 per 100.

Prices of other varieties on application.

Nathan Smith & Son,
167 W. Maumee Street,
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SMILAX

Transplanted plants, an honest sample of which will be mailed you for 10 cts. Price per 100, 75 cts.; $6.00 per 1000, cash with the order. First lot are all sold; next lot ready July 1st.

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FANCY LEAVED CALADIUMS, 20 varieties, from 2½-inch pots at $5.00 per 100.
CAPE JASMINE, from 2½-inch pots, at $25.00 per 100; 4-inch 75c; 5-inch 10c.
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CYPERUS ALTERNIFOLIUS, 4-inch 8c; 5-inch 10c; 6-inch 12c.

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Per barrel (about 125 lbs.), $2.50. Sample free by mail.

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From 2¼-inch pots, 10 to 12 inches high, ready to pot into 4s, $3.50 per 100; $30.00 per 1000.

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You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

THE AMERICAN FLORIST CO.'S

DIRECTORY AND REFERENCE BOOK

FOR 1894

CONTAINS THE FOLLOWING:

1. The names and addresses of the Florists, Nurserymen and Seedsmen of the United States and Canada, the exact branch of the business each is engaged in being indicated.
2. A separate list of firms that issue catalogues, the space devoted to each branch of the business in each catalogue being also given.
3. A list of the names and addresses of superintendents of leading parks in the U. S. and Canada.
4. A list of the principal cemeteries of America at which the arts of the landscape gardener and florist are used in beautifying the grounds.
5. A complete, alphabetically arranged list of Roses in commerce in America, with class, habit of growth, date of introduction, name of introducer, and brief, accurate descriptions of the flower of each. Synonyms are also plainly given.
6. A complete, alphabetically arranged list of Chrysanthemums in commerce in America, with class, and brief, accurate description of each. Synonyms are noted and varieties that are very popular with American growers are designated by a star, and this year's introductions by a dagger.
7. A complete, alphabetically arranged list of the Carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each.
8. Seasonable Hints for the year, arranged in weeks, written by Mr. William Scott, and covering every detail of a general florist business. This is decidedly the most valuable contribution to the literature of the trade ever published. It is written in a plain, practical way, by a man who knows what he is talking about.
9. A historical sketch of the Society of American Florists from its organization to date, including officers for each year and lists of essays read at each meeting, with other information of interest.
10. A similar historical sketch of the American Association of Nurserymen.
11. A similar historical sketch of the American Carnation Society.
12. A similar historical sketch of the American Seed Trade Association.
13. Similar historical sketches of the Florists' Hail Association of America; of the National Chrysanthemum Society of America; of the Florists' Telegraph Delivery Association.
14. A complete list of all National and Local Trade Organizations, with names and addresses of principal officers, time and place of meetings, etc.
15. Statistics of Commercial Floriculture in the U. S. from the last census.
16. Statistics of the Nursery Industry in the U. S. from the last census.
17. Statistics of Seed Growing in the U. S. from the last census.
18. A list of Leading Horticultural Societies, with name and address of the Secretary of each.
19. Full information about Express and Postage rates on plants, shrubs, trees, seeds and bulbs

No less than 270 pages of valuable reference matter in compact form, and all UP TO DATE.

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TRY DREER'S GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

200,000 ROSES 200,000

Nice stock from 2½-inch pots.

	Per 1000	per 100
PERLE	$25.00	$2.80
SUNSET	25.00	2.80
BRIDE	20.00	2.25
MERMET	20.00	2.25
GONTIER	20.00	2.25
MME. CUSIN	22.50	2.50
MARECHAL NIEL	25 00	2.80
FISHER HOLMES		3.00
WHITE LA FRANCE	22 50	2.50
ALBANY	24.00	2.75
WATTEVILLE	22.50	2.50
SOUPERT	20.00	2.25
CLIMBING PERLE		3.50
BON SILENE		3 00
MRS. DeGRAW		3.00
SOUV. D'UN AMI	22.50	2.50

And all standard varieties in **Hybrids, Teas, Hybrid Teas, Climbers, Polyanthas, etc, etc.** Strictly our own selection, $20.00 per 1000; $2.25 per 100. Same from 4-inch pots, $6.00 per 100.

Send in your lists for prices.

TERMS CASH WITH ORDER.

CUT SMILAX, 10 cents per String.

THE NATIONAL PLANT CO.,
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Mention American Florist.

FORCING ROSES.

The nice, clean stock of forcing roses in following numbers and varieties, true to label. Must be sold to make room.

300 Brides, 4-inch; 600 3-inch.
1300 Mermets, 4-inch; 340 3-inch.
640 Perles, 4-inch; 525 3-inch.
80 Mme. Testout, 4-inch.
250 La France, 4-inch.

4-inch $10.00 per 100; 3-inch $6.00 per 100.

580 Bridesmaids, 3-inch.....$7.00 per 100
100 Kaiserin Augusta, 3-inch...10.00 per 100
80 Mme. Testout, 4-inch for $12.00
50 American Belle, 4-inch.....for 10.00
100 American Beauty, 3-inch.....for 10.00
160 " " 4-inch.....18c. each
175 " " 5-inch.....25c. each

Cash must accompany order.

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BELLEVUE, Allegheny Co., PA.

AMERICAN BEAUTIES.

Strong plants from 2½-inch pots, $50.00 per 1000.
From 3-inch pots, $70.00 per 1000.

TESTOUTS AND BRIDESMAID.
From 3-inch pots, $6.00 per 100.

BRIDES, 3-inch pots, $5.00 per 100.

Chrysanthemums.
Strong plants of leading varieties. Our selection. $3 per 100; $25 per 1000.

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Mermets, Bride, Gontier, Perle, Clim. Perle, Sunset, Wootton, Niphetos, Hoste.

First quality stock from 4-in. pots.

PER HUNDRED.....$10.00.
PER THOUSAND.....$90.00.

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ROSES. FINE, THRIFTY STOCK.

AMERICAN BEAUTY	2½-inch	$ 7.00	3½-inch	$13 00	
BRIDESMAID	"	6.00	"	"	12.00
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MME. CAROLINE TESTOUT	"	6 00	"	"	12.00
LA FRANCE	"	4.00	"	"	9.00
DUCHESS OF ALBANY	"	4.00	"	"	9.00
MERMETS	"	4.00	"	"	9.00
BRIDES	"	4 00	"	"	9.00
PERLES	"	4 50	"	"	10.00
CLIMBING PERLE	"	5.00	"	"	11.00
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GREENHOUSES: Western Springs, Ill. **VAUGHAN'S SEED STORE,** CHICAGO: 146-148 W. Washington St.

Roses. Roses. Roses.

Perle, Niphetos, Mermet, Bride, Testout, Victoria, Meteor, La France, Albany, Gontier, White La France, Soupert and Bridesmaid, 2 1-2 inch pots, $5.00; 3-inch pots, $6.00 per hundred.

AMERICAN BEAUTY, 2 1-2 inch, $6.00; 3-inch, $8.00 per hundred.

THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

ROSES, all the very best both new and old.

CHRYSANTHEMUMS, the cream of all the long list now offered, in extra fine plants now ready for immediate delivery.

JOHN N. MAY, Summit, New Jersey.

40,000 FIRST QUALITY FORCING ROSES.

READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last two years, and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

GEN. JACQUEMINOT, ULRICH BRUNNER, KAISERIN A. V. BRIDESMAID, 3-inch pots, $9.00 per 100. SOUV. DE WOOTTON, LA FRANCE, 4-inch pots, $12.00 per 100. METEOR,

PERLES, SAFRANO, SUNSETS, NIPHETOS, 3-inch pots, $7 00 per 100. BON SILENE, BRIDES, 4 inch pots, $10 00 per 100. MERMETS, MME. HOSTE,

J. L. DILLON, Bloomsburg, Pa.

Brides, Bridesmaids, Perles, Met ors, Hostes, From 2, 3 and 4-in. pots. **ROSES** **Cusins, Niphetos, Testouts, La France, Mermets,**

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Sole Agents for U. S. for Chas. Macintosh & Co., England, Inventors of Vulcanized India Rubber, Extra strong greenhouse hose to withstand high pressure. ¾-in., 3-ply, 15c. per foot in 60 feet lengths.

AMERICAN BEAUTY, TESTOUT, K. A. VICTORIA, BRIDESMAID, BRIDE, MERMET, METEOR, PERLE, SUNSET, CUSIN, LA FRANCE, 3 and 4-inch pots, prime stock, shipped at special florists' rates. Packing light.

Write for prices, including delivery to your Express office. **A. S. MacBEAN, Lakewood, N. J.**

ROSES.

Mermets, Cusins Watteviles, Hoste, Meteor and La France, $3.00 per 100.

Strong American Beauties, $5.00 per 100; $40.00 pe 1000. 500 at 1000 rates.

Special prices on quantity. Let me price your lists. Cash with order.

ROBERT F. TESSON,
West Forest Park, St. Louis, Mo.

ROSES.

Strong, clean, vigorous stock of

CUSINS, BRIDES, MERMETS, METEOR, BRIDESMAID, PERLES,

in 2½, 3 and 4-inch pots; cheap for cash.

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STANDARD AND NEW KINDS.
PRICES RIGHT.
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Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

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JAMAICA PLAIN, (Boston), MASS.

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Clean, healthy stock.

MERMETS, NIPHETOS, MME. WATTEVILLE, BRIDES, LA FRANCE, BON SILENE, PAPA GONTIER. SUNSETS, PERLES, METEOR.

Strong plants, from 3-inch pots, $8 per 100; $75 per 1000.

WOOD BROTHERS, Fishkill, N. Y.

ROSES.

Strong, healthy plants, from 2, 2½ and 3-inch pots, price, $3.00, $4.00 and $6.00 per 100.

PERLE, SUNSET, NIPHETOS, MERMET, BRIDE METEOR, WOOTTON, HOSTE, M. NIEL, LA FRANCE, AND ALBANY.

Strong AM. BEAUTY, from 2-inch pots, $4.00 per 100.

JOSEPH HEINL, Jacksonville, Ill.

Buffalo.

A very short line from our little city on the Hamburg Canal will explain the condition of affairs. In the first place the thermometer is altogether too high. Business is entirely flat. And as reasonable creatures we don't expect it to be much better for some time. There are few good flowers of the standard sorts to be seen. Roses fall to pieces while you are extolling their long keeping qualities to a customer, and if they did keep they are scarcely "a thing of beauty." There is some fine Lilium auratum in the stores, making the atmosphere really too dense for the average customer. Mud turtles are coming in and so are water lilies, both white and pink. The only really good flower we now have in abundance is the carnation, of which there is a great abundance, and they are fine in quality and quantity, the old heads having not forgotten that shade and plenty of moisture are the chief essentials to secure good carnations in summer.

There are plenty of social matters talked over among the fraternity just now. One is that we should all get together and have an excursion down the Niagara River. That would be more than nice; in fact it would be "awfully jolly." Then there is the annual game between Rochester and Buffalo at the national game of baseball. It would be impossible to miss that in our annual existence. And last, but by no means least, is the convention at Atlantic City. We have some young blood here that has distinguished itself so remarkably this winter in a city championship that if Philadelphia or Boston read the scores they would quietly but decorously hunt their holes. We will have a team there, and a strong one, and the writer hopes it will be well managed. W. S.

Do you WANT a complete alphabetical list of carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

CHRYSANTHEMUMS.

From 2½-in. pots, at $3 per 100.

STRONG, SMILAX, from 2½-inch pots, $3.00 per 100, $25.00 per 1000.

PANSIES, from cold frame, $5.00 per 1000.

Address J. G. BURROW, Fishkill, N. Y.

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Done with expert ability for Florists Nurserymen, Seedsmen. Write to

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CELERY PLANTS

WHITE PLUME, GIANT PASCAL, GIANT GOLDEN HEART and GOLDEN SELF BLANCHING.

Field grown plants, $1.25 per 1000.

The New PINK PLUME, transplanted plants, $3.50 per 1000. Cash with order.

Sample mailed free.

C. M. GROSSMAN, Wolcottville, Ind.

Cyclamen Seeds.

KOCH'S SUPERB PRIZE CYCLAMEN.

The Finest Strain in the World.

Bright dark red,	100 seeds $1.50
Rose of Marienthal	100 seeds 1.50
White with carmine eye,	100 seeds 3.75
Mont Blanc, EXTRA	100 seeds 6.25

Cash with order

LUDWIG KOCH, Wandsbek, Hamburg, Germany.

Water Plants.

Eichhornia Azurea (New Blue Water Hyacinth), each 20c; dozen $1.75.

Eichhornia (Pontederia) Crassipes Major (Water Hyacinth), $2.00 per 100, prepaid, or $8.00 per 1000, not prepaid.

	Each	Doz.	Per 100
Nelumbium Speciosum	$.40	$5.00	$25.00
Nymphæa Devoniensis	.50	5.00	
" Flava	.20	2.00	8.00
" Odorata	.10	1.00	6.00
" " Gigantea	.20	2.00	12.00
" Zanzibarensis Azurea, in bloom	.40	3.50	25.00
" Rosea, in bloom	.40	3.50	25.00
" Dentata	.50	4.00	30.00
Pistia Stratiotes or Water Lettuce		.15	1.00
Myriophyllum Proserpinacoides or Parrot's Feather		.15	1.00
Sarracenia Variolaris	.10	.50	3.00
Limnocharis Humboldtii (Water Poppy)	.10	.60	4.00

Small plants of N. Zanzibarensis and N. Dentata, 10c each, or seeds 10c per large packet, or $2.00 per ounce, not prepaid.

Nephrolepis Exaltata (Sword Fern), selected plants from open ground, $12.00 per 1000, or $2.00 per 100, delivered.

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SAN ANTONIO, FLORIDA.

ROOTED CUTTINGS

COLEUS, 10 kinds by mail.....60c per 100
" 12 kinds by express..$4.00 per 1000

ALTERNANTHERA P. Major by mail..... 50c per 100

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FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,
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Tuberous Begonias.

GRIFFIN'S STRAIN.

Medal awarded World's Fair.

We are headquarters for the above, the finest strain in the world. Send for illustrated descriptive catalogue with copyright engravings. It tells you all about them.

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Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.

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Special and Hardy Water Lilies of all colors.

VICTORIA REGIA AND V. RANDI, EURYALE FEROX.

Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc., etc. Nymphæa Laydekeri rosea (awarded a Medal at World's Fair); most charming of all the HARDY Lilies; $2.50 each.

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CYCLAMEN.

Best German Strain. New Seed.

	1000 seed
Cyclamen Giganteum, dark red	$4.75
" " pink Rosa Marienthal	4.75
" " white with red	4.75
" " best white	5.50
" " mixed all colors	4.50
" " mixed all colors 75c 100 seed.	

Cash with order. AUGUST BECKER,
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SMILAX.

Plants from last fall; these have a foundation and will begin to run strong at once. $2.50 per 100; $20.00 per 1000.

CLEMATIS for Fall Delivery.

Special prices at wholesale, on application. Splendid stock and assortment.

F. A. BALLER, Bloomington, Ill.

Grow Swainsona.

The best and most profitable pure white flower grown. Takes the place of Roman hyacinths or lily of the valley, producing spikes of flowers from 4 to 6 inches long, in the greatest abundance the entire year—never out of bloom—lasting well when cut. 100 Swainsona will pay you three times as much as same space in best carnations. No florist should be without this most useful flower. After a trial it will be considered indispensable.

EASY TO GROW.

An exceptionally good and paying cut flower.

Strong young plants, $1.00 per doz.; $6.00 per 100.

Larger ones, $1.50 per doz.; $10 per 100.

FAUST & BRO.,
MERION STATION, P. R. R., PA.
Mention American Florist.

"HELEN KELLER"

The new Carnation; pure white, delicately marked with red.

Price for well Rooted Cuttings: $3.00 per dozen; $12.00 per 100; $25.00 per 250; $80.00 per 1000. 500 at 1000 rate. Orders may be sent either to

JOHN N. MAY, Summit, N. J. EDWIN LONSDALE, Chestnut Hill, Phila.

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

FRED. DORNER & SON,

Carnation Growers,

LA FAYETTE, IND.
Mention American Florist.

THE JACQUEMINOT CARNATION

Is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. NO MORE SAMPLES—we cannot spare the time. Send for circular. Per dozen, $2.00; per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.

PETER FISHER & CO.,
ELLIS, Norfolk Co., MASS.

CARNATIONS

Rooted Cuttings all sold or planted out. Field plants for sale in the fall.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.
Mention American Florist.

HEALTHY ROOTED CUTTINGS

Carnations AND Chrysanthemums.

STANDARD VARIETIES.

MARIE LOUISE VIOLET RUNNERS.

SMILAX, 2½-inch pots.

Satisfaction and prompt shipment guaranteed.

SAMUEL J. BUNTING,
Elmwood Ave. & 58th St., PHILA., PA.

Carnations a Specialty

Rooted Cuttings and Young Plants sold out. Nice Field-Grown Plants in Sept. Send for prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

CELERY PLANTS, $1.00 per 1000.

Strong, well rooted and stocky.

Address CELERY PLANT CO., Kalamazoo, Mich.



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Universal Horticultural Establishment



W. A. MANDA,

TO THE FLORIST TRADE: SOUTH ORANGE, N. J.

Saving at the expense of quality is waste, but reducing expenses and increasing quality is the only true economy. This is my object to avoid any unnecessary expenses of costly catalogues, which enables me to sell highest quality at lowest price. If you want **RELIABLE BULBS** fill out quantity required in the blanks below, cut this page out and mail to me. I will give you my estimate and return to you for your acceptance. I will not publish Trade Bulb Catalogue, but will give you the benefit of the saving. Quality, only one, **"THE VERY BEST."**

Quantity required.		Price Per 1000.	Total.
	LILIUM HARRISII, 5-7	$....	$.....
	" " 7-9		
	" " 9-11		
	" longiflorum, 5-7		
	" " 7-9		
	" " 9-11		
	" auratum		
	" speciosum		
	" " album		
	" candidum		
	ROMAN HYACINTHS,		
	White, 11-12		
	" 11-15		
	" 12-15		
	" 13-15		
	Dark pink		
	Light pink		
	Blue		
	Lily of the Valley,		
	XXX for early forcing		
	XXX for late forcing		
	Freesia refracta alba,		
	1st size		
	Extra selected		
	Mammoth		
	Calla Lily, white		
	Tuberoses,		
	Double Pearl, 4 to 6 in.		
	DUTCH HYACINTHS.		
	Single mixed, pure white		
	" blush white		
	" yellow		
	" red		
	" rose		
	" light blue		
	" dark blue		
	Double mixed, pure white		
	" blush white		
	" yellow		
	" red		
	" rose		
	" light blue		
	" dark blue		
	Dutch Roman, single white		
	" " rose		
	" " blue		
	" double white		
	" " rose		
	" " blue		

Quantity required.		Price Per 100.	Total.
	DUTCH HYACINTHS.	$....	$.....
	Amy, single red		
	Robert Steiger, red		
	Norma, red		
	Gigantea, red		
	Alba superbissima, s white		
	Baron Von Thuyll, s. white		
	Grand Vedette, single white		
	Blanchard, " "		
	La Grandesse, " "		
	Grandeur a Merveille, "		
	Charles Dickens, sin. blue		
	Marie, single blue		
	Czar Peter, single blue		
	Baron Von Thuyll, s. blue		
	Regulus, single blue		
	King of the Blues, s. blue		
	Bleu Mourant, single blue		
	Herman, single yellow		
	Ida, single yellow		
	La Pluie d'Or, single yellow		
	Bouquet Tendre, dbl. red		
	Czar Nicolas, double red		
	Grootvorst, "		
	Rembrandt, double blue		
	Blocksberg, "		
	Charles Dickens, dbl. blue		
	Goethe, double yellow		
	Jaune Supreme, dbl. yellow		
	Anna Maria, double white		
	La Virginite, double white		
	La Tour. d'Auvergne, "		
	TULIPS.		
	Single early, fine mixed		
	" ex. fine mixed		
	Duc van Thol, scarlet		
	" " red & yellow		
	" " rose		
	" " white		
	" " yellow		
	Artus, single brilliant red		
	Chrysolora, yellow		
	Belle Alliance, scarlet		
	Bizard Verdict, yel. & scar.		
	Cottage Maid, white & rose		
	Coleur Ponceau, white and crimson		
	Duchess de Parma, red and yellow		
	Joost van Vondel, red and white		

Quantity required.		Price Per 1000.	Total.
	TULIPS.	$....	$.....
	Kaiserkroon, red & yellow		
	La Reine, white		
	L'Imacule, white		
	Pottebakker, white		
	" yellow		
	" scarlet		
	Proserpine, rose		
	Rose gris de lin, white, rose		
	Rosa mundi, rose & white		
	Vermilion Brilliant, scarlet		
	Yellow Prince, yellow		
	Double Tulips, fine mixed		
	" extra "		
	Imperator rubrorum, scar.		
	La Candeur, white		
	Murillo, pink		
	Rex Rubrorum, scarlet		
	Salvator Rosa, rose		
	Tournesol, red		
	" yellow		
	Yellow Rose, yellow		
	Parrot Tulips, mixed		
	Bizarres, " "		
	Bybloemens" "		
	NARCISSUS.		
	Von Sion		
	Alba plena odorata		
	Double Incomparable		
	Poeticus		
	" ornatus		
	Trumpet Major		
	Paper White		
	" " grandiflora		
	Jonquils, single		
	Jonquils campernelle		
	Chinese Sacred		
	Crocus, mixed whtie		
	" " blue		
	" " yellow		
	" " striped		
	Allium neapolitanum		
	Ornithogalum Arabicum		
	Astilbe japonica		
	" " grandiflora		
	Spiræa astilboides		
	Gladiolus, The Bride		
	Azaleas, finest var., 9-10 in.		
	" " 10-12 in.		
	" " 12-14 in.		

PLEASE PUT HERE ANY KIND NOT MENTIONED ABOVE ON WHICH YOU WISH QUOTATIONS.

Terms Desired..... **Terms given by W. A. MANDA**.....

Please quote prices for the above quantity and return to

Name..... **Address**.....

Cincinnati.

Extremely warm and tempestuous weather has had its effect on the cut flower trade. There is plenty of stock in the market, but it is very poor as a general thing. Sweet peas are more than plentiful; feverfew, cornflowers, larkspur, valley, roses and carnations make up the assortment handled by the commission houses.

Cincinnati florists are quiet so far as work is concerned, only a few orders coming in, principally funerals and weddings.

The Florists' Club is getting ready for its first annual picnic, which will be held at Woodsdale Island about July 26; a positive date will be given later. The growers are already challenging the store men for a game of ball, and we have some very expert quoit pitchers, especially Otto Walke. We also extend an invitation to all brother florists to join us on this occasion, and will insure one and all a good time.

A storm passed over this section of the country June 26, doing great damage to agricultural crops, nor did the florists escape entirely, nearly all the boys coming in for a few broken ventilators or glass, but nothing very serious.

Henry B. Glins was visited by a burglar recently at his home, but the marauder was frightened away by Mr. Glins.

Julius Peterson, whose present establishment consists of nine large houses, is about to add a palm house 25x125. Adiantum Farleyense is one of Mr. Peterson's specialties, the remainder of his place being in roses, chrysanthemums, and violets. He heats by steam, using a 60 horse power boiler.

Chas. S. Barnaby, Columbus, Ind., was recently in town. G.

Eucharis Amazonica.

I have read the several notes on Eucharis amazonica and would say that it blooms with me to perfection. I have now in bloom two large tubs, one with 23 flower scapes with 5 to 7 blooms on each. It blooms twice a year, at any season according to treatment.

Columbus, Ga. S. J. SAULS.

Prices Lower Than Ever.

Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revolula, superb growing plants with fine foliage from 25 cents to $5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

For general Japanese stock apply to

F. Gonzalez & Co.,

303 to 312 Wayne St., SAN FRANCISCO, CAL.

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Are the smoothest, clearest, best and cheapest label in the market. We carry a complete line of labels and stakes suited to every purpose ranging in size from 2½ inches to 4 feet. Note the prices. You cannot afford to make your own. Cash with order.

POT LABELS, PLAIN, EXPRESS PREPAID, PAINTED.

3-inch	25c per 100.	40c	55c	75c
3½-in	30c "	45c	60c	75c
4-inch	35c "	50c	80c	90c
5-inch	40c "	75c	$1.00	1.00

Freight is cheaper on large quantities. Send us a trial order. Samples and catalogues free.

PALMS are always in demand. We give 17, 3x4 in. for $1 and 31 for $2. Latanias, Kentias and the best sorts. See last No. for special offer.

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ROSE HILL NURSERIES,

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No. 113 North 4th Street,

Send for catalogue. PHILADELPHIA, PA.

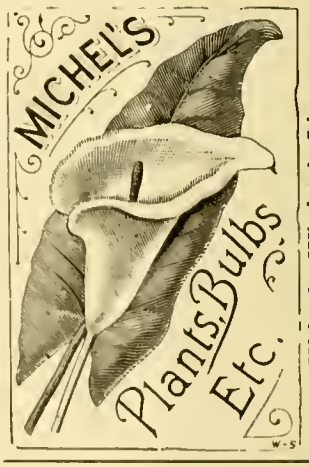
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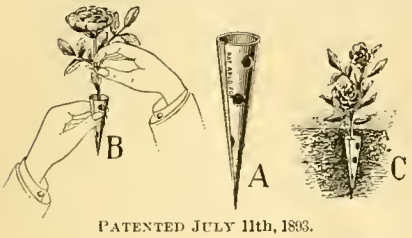
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Latest Device for Stemming Cut Flowers without Toothpicks and Wire.

Will keep set pieces fresh longer, as flower stem is entered deep in the moist moss. Made from solid brass, will not rust, very convenient, saves valuable time and labor. You can stem flowers with these points in one-quarter of the time as when done with toothpicks. Will hold a pansy as well as a calla lily. Manufactured by the **Novelty Point Works** in 5 sizes, from ⅛ to ½ inch in diameter.

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Per box of 1000 Points 50c. Can be sent by mail for 13c in addition. See advertisement in last issue, June 14

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Samples for trial sent by mail, postpaid, on receipt of 10 cents. Address

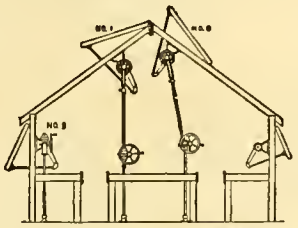
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POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

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Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,

Florists' Supplies,

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Send for Catalogue.

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FOR 1894

IS NOW READY.

PRICE $2.00.



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And Highest Award Wherever Exhibited.

These Letters and Designs are made of the best Immortelles, wired on wood or metal frames, having holes drilled in them to insert toothpicks, by which they are fastened in the design. Give them a trial. You will find these goods to be superior to any in the market.

2-inch Letters, $2.50 per 100.
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GLASS. ROCK BOTTOM PRICES Send for Estimate. Satisfaction Guaranteed.
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FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

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—A—

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

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This preparation is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

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Greenhouse Material,

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Toads in the Greenhouse.

I would like to call attention of florists to an old insect destroyer, which I have been using successfully in a (to me) new line of usefulness; namely, the common toad. All know it as a friend to the gardener in the open ground, and I will give my experience in brief with them in the greenhouse.

A few years ago I was much troubled with slugs and millipedes in some of my greenhouses, and in spite of all remedies could not dislodge them. I tried the experiment of a few toads in each house, and they soon cleared the pests out and have kept them out. They not only work all night, but on cloudy days; and under dark benches, a portion of bright days. In houses they hibernate only a few weeks in December and January and they will have done their work so well previously that the pests will not give trouble before they are again awake and at work on them. All they need is a small pile of loose soil to burrow in, in a cool place under the bench, and occasionally give one or two of them a lift onto your benches among large plants that they cannot injure in hopping around. Their keen eye and quick tongue will capture every insect in sight and you will find them invaluable, especially in forcing houses and pits, and vegetable houses.

Sussex, N. B. H. E. GOULD.

A Large Abutilon.

Messrs. H. W. & C. Pierce, Woonsocket, R. I., have in one of their greenhouses a white abutilon with a stem 6 inches in diameter at the surface of the ground and 3 inches in diameter at a height of 5 feet from the ground. The crown covers 120 square feet of space. The plant is very vigorous and produces immense quantities of flowers. Mr. Pierce has not kept a record but estimates that they cut about 50,000 blooms a year and this seems to be a conservative figure.

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Standard Flower Pots.

10 per cent. off for cash with order. Special discount on large orders. We carry a large stock on hand of good strong pots

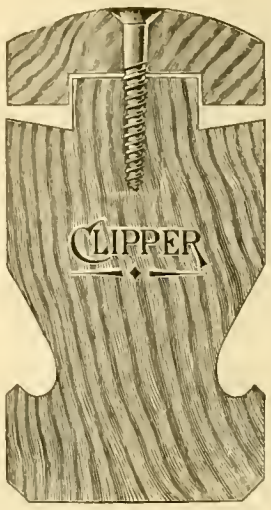
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1¾-inch pots, per 100		$ 3.00	6-inch pots, per 100			$22.00	
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3	"	"	5.00	10	"	per 100	10.00
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5	"	"	13.00	14	"	"	40.00
				16	"	"	75.00

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"Proof of the Pudding"

GAINESVILLE TEXAS, May 25, 1894.

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Yours truly, A. S BASSETT & SON.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest **CLEAR CYPRESS** used.

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"Standard" Flower Pots.

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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

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We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

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STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,

GEORGE MESSINGER, Manager. **East Brookfield, Mass.**

Crabb & Hunter,

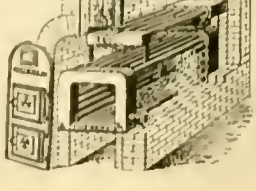
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Snell's Hydraulic System of using Oil for fuel purposes. *No odor,* and ⅓ to ⅓ cheaper than coal.

509 Madison Ave., GRAND RAPIDS, MICH.

Send for Circular. Mention American Florist.



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Water Heaters

For GREENHOUSES.

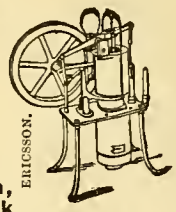
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JOHN DICK, Jr.,

250 S. 11th St.,

Philadelphia, Pa.

WATER
For Your GREEN HOUSE, ROSE HOUSE, NURSERY,
Conservatory, Lawn, House, Garden, Stock or any other purpose.
Send for Illustrated Catalogue
OF THE
DE LAMATER-RIDER AND DE LAMATER-ERICSSON
PUMPING ENGINE.



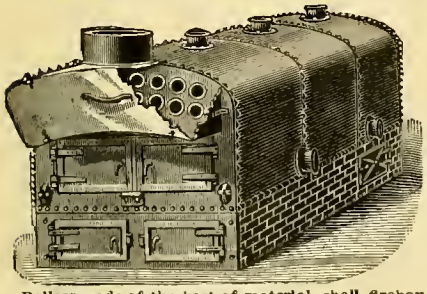
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Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel.
Capacity 1,500 to 30,000 gallons of water a day, according to size.



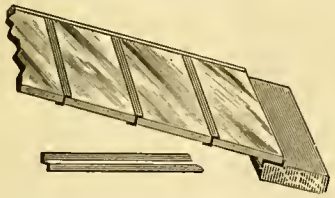
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Kroeschell Bros. Co.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

IMPROVED GLAZING.



GASSER'S PATENT ZINC JOINTS for butting glass makes greenhouses air and water tight; also prevents sliding and breakage from frost. Does not cost as much to heat a house glazed with the joints thereby saving enough in fuel to more than pay the additional cost of glazing. The leading florists of the country are using them. Write for circulars with full particulars and price list.

J. M. GASSER, FLORIST,
Euclid Avenue, CLEVELAND, O.

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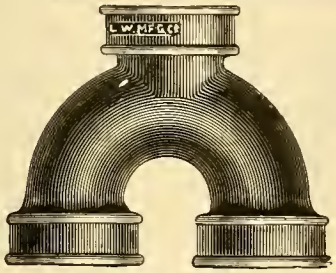
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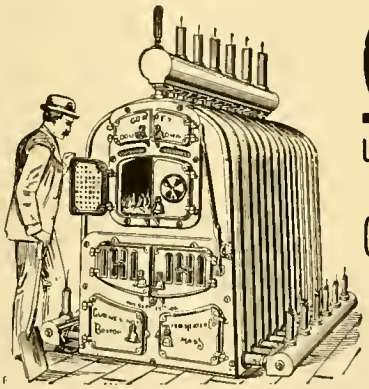
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MARYVILLE, MO.—Trade has been good this season, particularly in cut flowers. M. E. Mergen has commenced building some new houses. His wife had the misfortune to fall and break her left leg recently.

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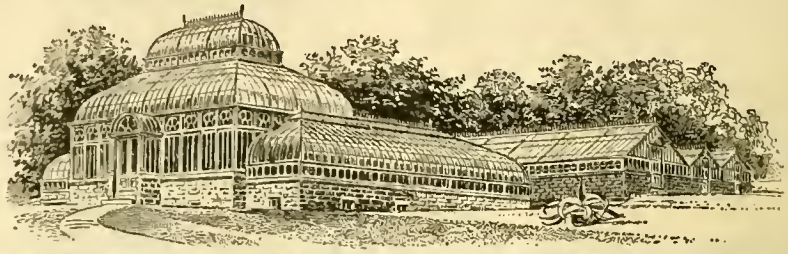
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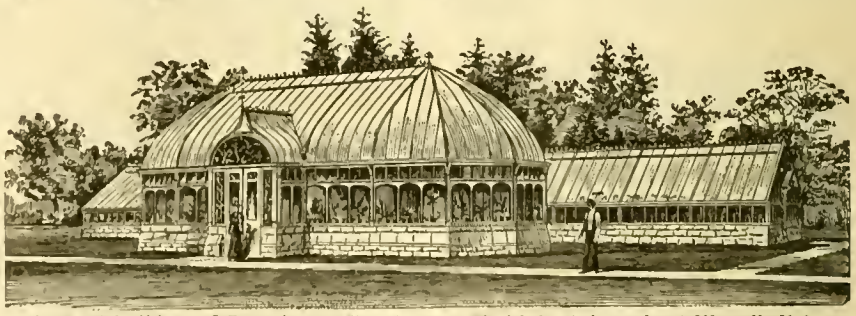
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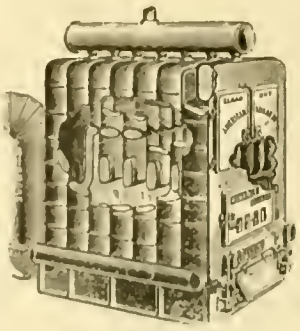
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Vol. IX. **CHICAGO AND NEW YORK, JULY 12, 1894.** **No. 319**

THE AMERICAN FLORIST

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The Tenth Annual Meeting

OF THE

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WILL BE HELD AT

ATLANTIC CITY, N. J.,

AUGUST 21, 22, 23 & 24, 1894.

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The Spring Plant Trade.

REPORTS FROM ALL SECTIONS.

Following we give reports on the plant trade secured from various sections of the country:

WHEELING, W. VA.—Spring plant trade was about 25% less than last year. Average price of 4-inch geraniums was about 90 cents a dozen. Collections are very difficult indeed.

COLORADO SPRINGS, COL.—Spring plant trade was ½ that of last year. The average retail price of 4-inch geraniums was $3 a dozen. There was a decided decrease in the call for bedding plants.

PORTLAND, ME.—Spring plant trade was ⅓ less than last year. Geraniums in 4-inch pots retailed at an average of $1 a dozen. Collections are a little harder than usual. We had plenty of surplus stock left on hand.

ROCKFORD, ILL.—Spring plant trade was somewhat less than last year. The average price for geraniums in 4-inch pots was $1.75 a dozen. Collections difficult. On the whole spring trade was decidedly less satisfactory than last year.

DAYTON, O.—Spring plant trade was about 20% better than last year. The average price of 4-inch geraniums was $1 to $1.25 a dozen. Taking everything into consideration spring plant trade was more satisfactory than last year.

SARATOGA, N. Y.—Spring plant trade was about the same as last year, possibly a little less if any difference. Geraniums in 4-inch pots retailed at $1.50 a dozen. An increased call for French cannas for bedding. Collections are difficult.

TOLEDO, O.—Spring plant trade about 25% smaller than last year. Average retail price for 4-inch geraniums $1 to $1.25 per dozen. Collections very much more difficult. Spring trade not as satisfactory as last year by considerable.

ROCHESTER, N. Y.—Spring plant sales about ⅓ less than last year. The retail price of 4-inch geraniums was $1 a dozen. Collections difficult. Of course after noting above you will see that our spring trade was not as satisfactory as last year.

LAWRENCE, KAN.—Spring plant trade was about the same as last year. Average price of 4-inch geraniums was $1.50 per dozen. Collections are no more difficult than last year. Taking everything into consideration trade was quite as satisfactory.

MINNEAPOLIS, MINN. — Spring plant trade was about 15% less than last year. Average price of 4-inch geraniums at retail was $1.50 per dozen. Collections are no more difficult than last year, but last year was bad enough, so that there is not much to brag about.

DETROIT, MICH.—Spring plant sales were a little less than last year. Good 4-inch geraniums retailed at $1 to $1.25 a dozen. We noted an increase in the call for the new cannas. Owing chiefly to the cold season spring plant trade was not as satisfactory as last year.

YOUNGSTOWN, O.—Spring plant trade showed a decrease of about 50% from last year. The average price of 4-inch geraniums was $1 a dozen. Collections are very difficult. Taking everything into consideration the spring trade was not nearly so satisfactory as last year.

OTTAWA, CAN.—Spring plant trade was about 25% less than last year. Average retail price of 4-inch geraniums $1 a dozen. Collections much more difficult than last year. Taking everything into consideration trade was not as satisfactory. Many of the best places have the beds sodded over.

AKRON, O.—Sales about the same as last season. Retail price for 4-inch geraniums $1 a dozen. The principal demand was for geraniums for bedding out, and there was a decrease in the call for house plants, such as begonias, azaleas, etc. Collections somewhat more difficult than last season.

ADRIAN, MICH.—Spring trade was about 40% less than last year, with a special decrease in the call for verbenas and coleus. The average price of 4-inch geraniums was $1 a dozen. Collections are more difficult. In view of the above of course spring trade was not as satisfactory as last year.

COLUMBUS, O.—Spring plant sales were 5 to 10% less than last year. Average price of 4-inch geraniums was $1 a dozen. A decrease in the call for verbenas. Collections are no more difficult than last year. Taking everything into consideration the spring plant trade was not quite as satisfactory as before.

NEW HAVEN, CT.—Spring plant trade was about the same as last year. Average retail price of 4-inch geraniums was $1.50 a dozen. There was more call for geraniums and vase plants and less call for chrysanthemums. Taking everything into consideration spring plant trade was about as satisfactory as last year.

MUSCATINE, IA.—Spring sales were about 20% greater than last year. Average price of 4-inch geraniums was $1.75 to $2 a dozen. There was a small increase in the call for all kinds of bedding plants. Collections are very poor. Taking everything into consideration the spring plant trade was little better than last year.

LOUISVILLE, KY.—Total sales about 20% less than last year. Average price at retail of geraniums in 3½-inch pots was $1 a dozen. The main call was for smaller and cheaper plants than heretofore. Collections have been very difficult. Unfavorable weather had a great influence on our trade in addition to the poor times.

NEW LONDON, CT.—Spring plant trade was about the same as last year. Geraniums in 4-inch pots retailed at $1.25 a dozen. There were fewer coleus sold; an increased demand for palms. Collections are more difficult than last year. On the whole trade was rather more satisfactory. There were more buyers of small lots for cash.

CINCINNATI, O.—Spring plant trade was about 10% larger than last year. Average price of 4-inch geraniums $1 to $1.25 a dozen. No especial increase in demand. Geraniums had the lead. Collections are decidedly more difficult. Taking everything into consideration the spring trade was not quite as satisfactory as that of last year.

CLEVELAND, O.—Spring plant trade was one-fourth less than last year. Good 4-inch geraniums retailed at 75 cents to $1 a dozen. There was not as much call for foliage plants. Collections are slower. Taking everything into consideration trade was not as satisfactory as last year, as less stock was sold and prices were lower.

GRAND RAPIDS, MICH.—Spring plant trade was about 40% less than last year. Average retail price of 4-inch geraniums was 75 cents a dozen and some very good plants were sold at 50 cents a dozen. The best call was for geraniums, there being a decrease in the call for other plants. Collections are about the same as last year.

TERRE HAUTE, IND.—Spring trade was about the same as last year with an increased call for blooming plants, particularly geraniums. Collections were a little slower than usual. The average price per dozen for geraniums in 4-inch pots was $1.50. Taking everything into consideration spring trade was as satisfactory as last year.

PROVIDENCE, R. I.—Total sales of plants this spring were about equal to last year. Average retail price of well grown geraniums in 4-inch pots was $1.25 per dozen. There was a decrease in the call for verbenas. Have found it no more difficult to collect this year than last. Taking everything into consideration spring trade was quite as satisfactory as last year.

ST. JOSEPH, MO.—Spring plant trade was about the same as last year as near as we can get at it. There was a better call for fuchsias and begonias and a lighter demand for ever-blooming roses. Collections were slow last year, and are about the same this season. Taking everything into consideration the spring trade was as satisfactory as last year.

RICHMOND, VA.—Spring plant trade was about the same as last year. Fine 4-inch geraniums retailed at $2 a dozen, and extra fine ones at $3 a dozen. There was an increased call for hydrangeas and pot roses. Extra good plants of anything sold well. Collections much slower than last year. Taking everything into consideration we are well satisfied with the trade.

DES MOINES, IA.—Spring plant trade was about 30% larger than last year. Average retail price of 4-inch geraniums $1.50 to $2 per dozen, an increased call for geraniums, decreased call for sweet alyssum, mignonette and small stuff. Collections were rather better than last year. Taking everything into consideration spring trade was quite as satisfactory as last year.

BUFFALO, N. Y.—Spring plant trade was about the same as last year. Retail price of 4-inch geraniums was $1.50 a dozen. We noted an increased call for cannas, caladiums and geraniums. Less call for carpet-bedding plants. It is almost too early to speak definitely about collections. Taking everything into consideration the spring trade was as satisfactory as last year. There are only a few grumbling.

KANSAS CITY, MO.—Spring plant trade about the same as last year. The average retail price of geraniums in 3½-inch pots was $1.50 per dozen; in 3-inch pots $1 a dozen. There was an increase in the call for geraniums and roses, also tuberous begonias and hydrangeas. Collections are more difficult this year. Taking everything into consideration spring plant trade was just about as good as last year.

UTICA, N. Y.—Spring plant trade was about 1-5 larger than last year. Retail price for 4-inch geraniums was $1 a dozen for ordinary, and for extra fine $1.50 a dozen. We noted an increased call for hydrangeas, palms and ornamental foliage plants. Collections were more difficult than last year. Taking everything into consideration spring trade was about as satisfactory as the previous year.

NEWARK, N. J.—Spring plant trade was not quite equal to last year, but was not very much less. The average price per dozen of 4-inch geraniums was $1. There was a decrease in the call for coleus and an increased call for monthly roses. Collections were about the same as last year. Taking everything into consideration spring plant trade was not quite as satisfactory as before.

ALBANY, N. Y.—Spring plant trade was about 10% larger than last year. Average price of 4-inch geraniums was $1 to $1.50 a dozen. There was an increased call for pansies, roses, hydrangeas and petunias. Collections do not seem to be any more difficult than last year. Taking everything into consideration spring trade was quite as satisfactory as last year with the exception of prices being a little lower.

MEMPHIS, TENN.—Spring plant trade was about ⅓ larger than of last year. Plants sold well. Good 4-inch geraniums retailed at $1.25 to $1.50 a dozen, 3-inch pots at 75 cents to $1. Alternantheras never sold so well; people use them largely now. It is very hard to collect, much harder than last year. Taking everything into consideration spring trade was as satisfactory as last year though more plants were sold at cheaper prices.

BURLINGTON, VT.—Spring plant trade was about 15% larger than last year. First-class 4 inch geraniums were sold at $1.25 a dozen, though the larger number retailed at $1 a dozen. The main increase was in the call for bedding plants, such as geraniums, coleus, cannas, etc. Collections are somewhat more difficult than last year. Taking everything into consideration plant trade this year was more satisfactory than last.

LITTLE ROCK, ARK.—Spring plant trade was about the same as last year. Geraniums in 4-inch pots retailed at $1 a dozen. There were more calls for geraniums and coleus and less for roses. Collections are no more difficult than last year and taking everything into consideration spring trade was quite as satisfactory as the previous season. Cut flower trade during the past year has been at least 25% better than before.

DAVENPORT, IA.—Spring plant trade showed a slight increase of about 10%. The average price of 4-inch geraniums was $2.50 a dozen, that for 3-inch plants $1 a dozen. There was no increase for any special plant, but there was a larger call for window box and vase plants. Collections were fairly good and certainly no worse than last year. Taking everything into consideration spring plant trade was quite satisfactory.

MILWAUKEE, WIS.—Spring plant trade was about 10% smaller than last year. The average retail price for 4-inch geraniums was $10 a hundred. There was a trifle less call for coleus and more for shrubs and hardy perennials. In regard to collections it seems easier to get in new made accounts but the old ones were very slow. Taking everything into consideration the spring plant trade was a trifle more satisfactory though not quite so large as last year.

PARKERSBURG, W. VA.—Spring plant trade was about the same as last year. There was some increase in foliage plant bedding but a falling off in sales of verbenas and the like. Very few geraniums were sold in 4-inch pots; the bulk were in 3-inch pots and retailed at $1 a dozen with pots reserved. There was an increase in the call for decorative plants, palms especially. We have not found collections more difficult, in fact they were better and we were not taking any risks. Considering the hard times we are very well satisfied with our spring plant trade.

SPRINGFIELD, ILL.—In volume spring plant trade was about the same as last year, but in total value of sales it was about 10% less. Some florists report sales of 15 to 20% less, but this is offset by the new florists, which brings it up to the percentage above stated. First-class 4-inch geraniums retailed at $1.50 per dozen but some were sold at $1.25. There was a decided demand for scarlet geraniums and good dwarf cannas. Collections are slow but not desperate, may be called fair. Taking everything into consideration the trade was not as satisfactory as last year. One party reports having thrown away over 4000 coleus and a lot of other small stock.

DENVER, COL.—Spring plant sales were about ⅓ less than last year. The average retail price per dozen for 4-inch geraniums was about $1.50. It should be explained, however, that the larger firms charged from $2 to $2.50 a dozen, but good plants could be bought for an average of 5 cents each from peddlers, thus bringing the average to about $1.50. Accounts have been decidedly more difficult to collect. Taking everything into consideration spring trade was not as satisfactory as last year. Of course the hard times have so affected the trade that this season's business can hardly be taken as a criterion for anything. The demand for well grown stock at a slight advance in price over ordinary stock has been marked.

PEORIA, ILL.—Spring plant trade was about 10% larger than last year. Average price for 4-inch geraniums was $1.50 a dozen. An increase in the call for coleus. Collection of accounts was at least 10% better than last year. Taking everything into consideration spring trade was more satisfactory. Plant trade generally has been on the boom here. Our city has spent a few dollars for plants, making the parks and lawns look much more beautiful. Even the florists have flowers planted out in ornamental design and have cleaned up a little, thus stimulating more interest in flowers. Florists, above all, should keep their places clean and do plenty of ornamental work with plants, and push to the front with every new idea.



HOUSE OF AMERICAN BEAUTY ROSES FOR SUMMER CUTTING

House of American Beauty Roses.

We present herewith an engraving from a photograph of a house of American Beauty roses grown by Mr. Wm. Scott, of Buffalo, N. Y. Regarding the house Mr. Scott writes:

"The bench is 88 feet long and 7 feet 6 inches broad, and there are just 466 plants on it. The house is an equal span running north and south, all the better for summer use. About the first of last July I planted this bench with a fine lot of healthy young Beauties. They grew as finely as it was possible for this fine variety to grow and paid well during September, October, November and December. At New Year's I was picking but a dozen or so a day, and as I had 1,500 longiflorum lilies that wanted a light house and high temperature I lifted the roses, cut them down and potted in 6-inch pots. After a cool month or two the roses were brought along and most of them sold well during April and May. As soon as the roses were lifted I leveled off the bed, beating it down even and solid, then stood the lilies on the soil, but was careful to put a piece of tarred paper under each pot. This was to keep the worms from the lilies and prevent the soil from getting too wet, and the young man who watered the house was told to let as little water as possible reach the soil. The lilies all went at Easter, then the soil was roughly dug up, allowed to dry out, a little bone meal was thrown over the soil and well worked in and on April 2 the bench was planted with healthy, young plants from 3-inch pots. They were propagated from the tops of the old plants. When lifted in January some knowing friends laughed when I said I would pick good roses by June 1.

"Here is the record, just as the 'log' was kept: 'Began cutting a few Beauties from No. 3 house on May 28, and cut up to June 9 about 30 in all. On June 10th 10, the 11th 6, the 12th, 9, 13th 8, 14th 9, 15th 30, 16th 54, 17th 114, 18th 130, 19th (this evening) 146.' I don't expect to keep up this high water mark for many days, but there is every appearance of cutting from 50 to 75 a day for months to come. They were planted solely for a summer and fall crop and in November, unless they are paying wonderfully well, will be lifted and the house used for lilies.

"A well known Beauty grower of Chestnut Hill remarked to me last fall that any fool could grow 'Am. Beauty in the fall.' That is perfectly true, yet I believe to grow them for a purely summer crop is not very common. In some cities it may not pay, but in our cool town where people *live* in the summer time there is alway a demand or sale for good flowers. There has not been an imperfect flower cut. The stems have not been long, but not one less than a foot, the average being from 15 to 18 inches long, and of the finest color. I am not pretending there is anything new about it, or clever either, but as I did not read about it or a kind friend tell me how to do it I feel pleased.

"I may be pardoned for alluding to the wilted cabbage rose on the right. It is altogether too conspicuous, but that is entirely the photographer's fault. The picture was taken at 5:45 a. m. June 17, and within 10 minutes the first cut of the morning was made, which was 87."

WM. SCOTT.

THE Russian Government proposes to hold an International Exposition of Fruit Culture and Products at St. Petersburg, beginning September 22d, and closing November 12th, 1894, with the object of showing the present condition in Russia and other countries of the cultivation of fruits and vegetables, of viniculture, the cultivation of medicinal plants, horticulture, and of the manufacture of their products. A Congress of Pomologists will be convened simultaneously with the exhibition. Those who may be desirous of taking part in the International Exhibition or in the proceedings of the Congress are requested to make timely application for further information to the offices of the International Exhibition of Fruit Culture 1894, at St. Petersburg, Imperial Agricultural Museum, Fontanka, 10.

Arrangement of Flowers.

VIII.

CUT FLOWERS IN BOXES.

What a difference in the mode of sending out cut flowers to-day as compared to the manner prevailing some 10 or 15 years ago! And in certain localities we need go back but a few years to the time when tissue paper, or even newspaper, wrapped around the flowers was considered good enough for the purpose. If paper boxes were used these were collected from dry goods houses, and consisted of all manner of shapes and all imaginable colors, such as collar boxes, boxes for neckwear, underwear, millinery, etc.

The cut flower box of to-day is of quite recent date. For many years after second-hand boxes were discarded the boxes mostly in use were those carried in stock by box makers, such as were made for the candy trade in various sizes. For larger sizes millinery and packing boxes were pressed into service. These boxes, however, were in a general way ill suited to the purpose. The 5-pound candy box is still in use in many places, a useful box in many ways, but as a receptacle for roses it necessitates the doubling up of the stems, which, besides being liable to break, can not fail to give the flowers a cramped appearance, which should by all means be avoided.

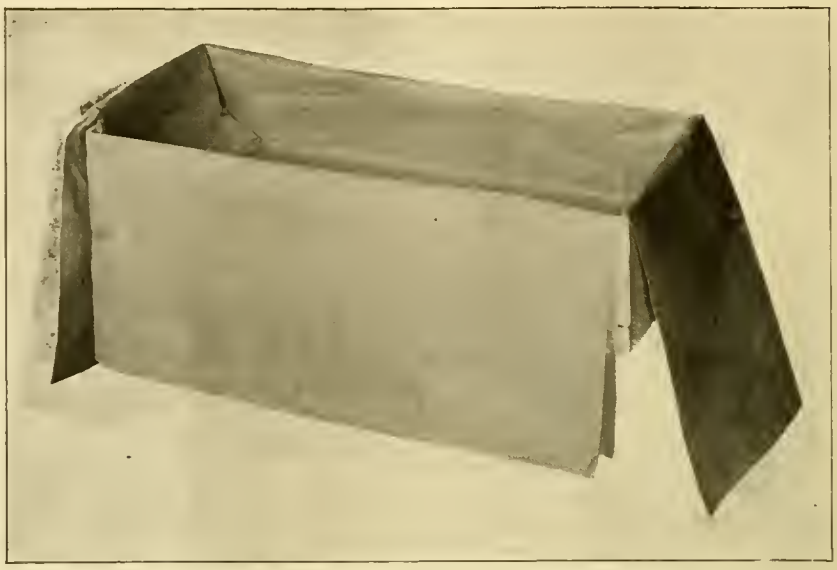
The great advantages gained by using a flower box of proper shape and dimension are not as fully understood by many of the retail dealers as should be. The cost of boxes in a retail establishment is a considerable item, but the increased cost of the right kind of box over a poor one is but small and it should never be considered. It will pay you in the end to put your merchandise before the public in the most attractive form. Just as sure as you send out a lot of flowers in a soiled and broken down box the recipient will set you down as a slovenly, third-rate concern, and you will find it a rather poor way of advertising. On the other hand put the flowers in a neat and attractive shape, even if it costs 5 or 10 cents extra, and the chances are that you will gain twice the amount on every package sent out by an increased business.

There is no excuse to be without a neat box nowadays, even if you are located a long distance from factories who make the manufacture of these boxes a specialty. The folding box, which is now made in most of our large cities, can be shipped in packages of small bulk so as to make freight charges quite reasonable. The same reason, that of taking up little room, also recommends this style of box to dealers in the city, where the quarters are limited as to space. Still a regularly made up box has some advantages which the former does not possess, but after all these are of minor importance.

The cardinal points are utility and appearance. As to color, soft and neutral tints are preferable to high colors. Cream or light buff tints are usually adopted by the manufacturer of folding boxes and answer the purpose very well, but many dealers prefer to have their stock made according to their fancy.

As far as dimensions are concerned we have some 25 or 30 different sizes, which, however, can be cut down to a much less number and yet give a pretty fair assortment. Let us say:

FOR GENERAL STOCK.	AM. BEAUTY BOXES.
10x4x3.	24x7x4.
14x5x3.	30x8x4½
16x8x3½.	36x11x5.
21x9x4.	VIOLET BOX.
24x10x4.	6x3x3.



BOX LINED WITH TISSUE PAPER AS RECOMMENDED

ARRANGEMENT OF FLOWERS.

Now that we have the right kind of box let us proceed to place the flowers into it in such a way as to display every bud and flower to the best advantage. Let us avoid the practice of packing the flowers in layers like sardines. Select the size of box suitable to hold the desired amount of material without undue crowding, and be most particular as regards length, then line your box with tissue paper in the manner shown in our first illustration. For common use the ordinary grade of so called brown tissue is generally used, but the white is in our opinion preferable, as it gives a neater appearance to the box. Waterproof oil paper is also used, but unless the flowers are sent long distances (and then wooden boxes should be used) the ordinary tissue answers our purpose best. Tinted tissues can not be recommended, as color conflict with the flowers is generally unavoidable. For putting up boxes of violets we are warranted in using a proper shade of purple or blue paper. Also white flowers for funerals, where the box can appropriately be lined with royal purple tissue.

In putting up a box of cut flowers we must be as careful in regard to color effect as in putting up a bouquet or design. Though the flowers are to be removed to be used for various purposes soon after delivery and arranged according to the recipient's taste, still our aim should be to produce the best possible effect upon opening the box.

No special rule for such arrangement can be laid down, as in the majority of cases the flowers are selected by the purchaser. If a box of mixed flowers for a certain amount be ordered we may exercise our best taste in the arrangement.

In our second illustration will be seen a box of such ordinary summer flowers as are in season now, such as roses of various kinds, carnations, sweet peas, a bunch of corn flowers, aquilegia, etc., with of course a few fronds of adiantum. The latter are indispensable in box arrangements of all kinds, but we should be careful not to lay them onto the flowers in a solid layer so as to entirely hide the flowers underneath. Smilax and the coarser kinds of green and ferns should be placed in the box first, which serves the purpose of raising the flowers up, which is especially needed at the end of the box where we place the first flowers, which should always be raised somewhat higher than the other end if a level layer is desired, for the reason that the stems and foliage of the material as we proceed to place will naturally raise the level towards the lower end of the box.

Packing Plants for Shipment.

II.

The packing of plants for shipment during cold weather involves a much greater expenditure both in labor and packing material than is required for summer shipments, and with all possible care taken in the matter there is still much risk of injury. In fact no tender plants should be shipped by freight after Nov. 1, the risk of freezing being too great, for while the transportation agents may to a certain extent be responsible for losses of this character, we all know how difficult it is to collect damages from such agents. It therefore becomes necessary to ship only by express at such times, and even then to use much discretion in the matter.

The first point to be noted in winter packing is to have the foliage on the plants quite dry before wrapping them up, and then to begin the tying up in the same manner as has been recommended for warm weather, but after having drawn up the foliage and given it the preliminary tying, a further covering of four to eight or ten thicknesses of paper should be given to the whole of the plant, either newspapers or straw paper, 20x30 inches in size being convenient for this purpose. It is best to begin at the top of the plant in the case of a tall palm, and then to lap each succeeding length of papers enough to make a complete covering, each paper being tied securely in place. And in order to work to the best advantage the packers should work in couples, one to keep the wrappings in place while the other does the tying. After the entire growth of the plant is securely covered right down to the surface of the soil, it should be turned out of the pot, any superfluous soil removed from the ball and then the latter thoroughly wrapped in several thicknesses of paper.

Small plants ranging in size up to 4-inch



BOX FILLED WITH FLOWERS.

ARRANGEMENT OF FLOWERS.

pots can frequently be rolled up in several layers of paper, without going to the trouble of first tying up the foliage, and instead of wrapping the roots in a separate paper it will be found quicker and not very expensive to slip them into a paper flower pot, this contrivance being quite convenient for the purpose.

The box should then be prepared for the reception of the plants by a thorough lining of at least two thicknesses of felt paper such as is used for lining buildings, this being tacked to the interior of the box in such a manner as to completely cover all cracks. Then give a second lining consisting of a good layer of excelsior, this being carried up the sides and ends of the box as the successive layers of plants are cleated into place, and finally leaving space enough on top of the last layer of plants to cover the whole with a good thick layer of excelsior and a covering of the felt paper before nailing down the wooden cover.

Of course it is understood that no holes for ventilation are required at this season, and all boxes should be made as nearly airtight as possible. For small ferns from 2 or 3-inch pots, and in fact any small stock another method may be adopted, namely, to line the box with the felt as described above, and also give a good layer of excelsior in the bottom, then roll the plants in several thicknesses of paper, and pack them upright closely together in the box, and finally fill in the sides of the box and all spaces among the plants with chopped hay, the latter having been run through a feed cutter that will cut it into about one-inch lengths. The chopped hay should be worked down among the plants so that all interstices are filled up, and the box filled a little above the edges, so that the cover will press down the packing quite firmly and prevent any movement of the plants. By this method I have shipped small ferns quite long distances during severe weather, and always had them arrive in first-class condition.

Plants in flower naturally require very careful packing in cold weather, and for these some cotton batting should be included in the packing outfit, but it should always be remembered that the cotton should never be placed in contact with the flowers if they are destined for a long journey, else the flowers will turn out flabby when unpacked, on account of the cotton having absorbed the moisture from the petals. To avoid this the flowers should first be wrapped in some soft tissue paper, then covered with the cotton, and finally receive another wrapping of paper. With such plants, however, it is not advisable to fill in the whole interior of the box with excelsior, for fear of crushing the flowers, it being safer to give the plants some extra wrappings and to tack in an extra lining in the box.

Rooted cuttings form quite an important item in the shipping trade of some concerns during a few years past, and these can be packed in various ways, according to the weather and length of travel to which they are exposed, but for winter shipping I think it is safest to tie them up in bundles of 25 or 50, then cover the roots with a little damp moss, and again cover the latter with a layer of excelsior, the whole bundle can then be wrapped in several layers of paper and cleated firmly in the end of a well-lined box, this enabling one to pack quite a considerable number in a soap box.

In packing plants of any kind for a long journey, it is much the best policy to use an abundance of nails, for a box that is insecurely nailed is very likely to be a source of much tribulation both to the shipper and the consignee, all expressmen apparently having the faculty of finding out the weak places in such packages. A stencil or two, with which to print "*Perishable Plants*," or some similar legend on every case before it goes out, is also a good investment, and may save some trouble in the adjustment of a claim against an express company.

W. H. TAPLIN.

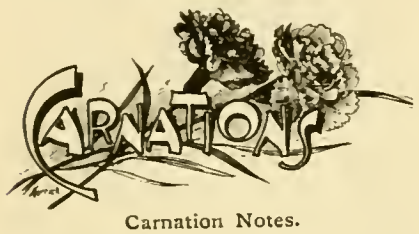
Anthurium Scherzerianum.

When grown in a warm stove this plant comes into bloom in spring, and makes its growth, which follows the decay of the principal crop of flowers, correspondingly early. The time that this anthurium makes its growth and flowers is a good deal influenced by the temperature in which the plants are grown. Yet when grown in a high temperature the results are not so satisfactory as when it is subjected to an intermediate house all the year around. I have grown this anthurium in the hottest house that a plant could grow, and also that of an intermediate house kept at about 50° at night during the winter months, with proportionally cool quarters in summer, yet when the plant is grown in a high temperature the results are not so satisfactory as when subjected to an intermediate house all the year around. Under this treatment the plants make much larger and stouter leaves and correspondingly larger spathe than if kept warmer. Under cool treatment they fully develop when the spring is well advanced, and last fresh until the end of summer. Most of the growth will be made at the last three or four months of the year.

The best time to repot is just as they commence to grow. As these plants require a large amount of water it follows that the soil in which they are grown, however enduring its nature may be, soon becomes a wet soddened mass, in which the roots cannot remain healthy. To avoid this it is better to pot every year. Where the plant is grown under cool treatment in the way described the potting should be carried out about the latter part of August. All the old material should be shaken from the roots; if any soft pasty matter adheres to them it should be washed away. The best compost in which to grow this anthurium is about half fibrous peat, with the greatest part of the earthy matter shaken out, and an equal part sphagnum moss, which should be chopped, but not too fine; to this should be added broken charcoal, crocks and sand. In this the plants will make more roots than in heavier soil. As the plant is a shallow rooter plenty drainage is needed. Syringe

overhead daily to keep insects in check. A light position should be given, with the plants as near the glass as practicable. Water should be given as soon as the plants are potted, keeping the soil quite wet from the time growth commences until finished, when less is required, but the roots must never become dry. When well managed it is a most desirable plant and is extremely effective in or out of bloom, and with fair treatment it will continue to thrive for a long time.

A. J. E.



Carnation Notes.

Last winter I said something about a tired back from disbudding a house of carnations planted on solid beds; to-day my back is almost broken in two from going over some thirty odd thousand plants in the field and topping them. I have this consolation, and it is worth a tired back, that I know the condition of every plant in the field and that the topping is done just as I want it done. There is nothing succeeds like success, and there is nothing so conducive to success as to attend to all the important details of carnation culture yourself, or at least as far as practicable. A prominent and very successful grower once told me that he did not think it policy for a grower to do any of the manual labor about his greenhouses, yet this same grower when he wants something done especially well and carefully will roll up his sleeves like any other ordinary mortal and wade into work.

Carnations are now supposed to be making themselves in the field, but they will need a little assistance on the part of the grower to do it properly. It is folly to think that plants choked up with weeds and allowed to go without topping will turn out all right in the fall. This style of carnation growing is getting less every year, but one occasionally sees such patches now, and the quicker we get rid of them entirely the better for carnation culture.

Keep the soil well mellowed and all weeds out of the patch and there is little danger of your plants being injured by a dry spell of weather, such as we often get through July and August. If the plants are a little backward watch your chance, and just before a rain give them some pure ground bone; to do this the ground should be loose, so that it has a good chance to soak in when it rains. A watering with manure water will also be beneficial, but it should be done just before a rain to be of the most benefit. Keep treating your plant with the rust formula, and at the same time keep a sharp lookout for the rust, and when you find any treat it vigorously; if you can't spare the plant pinch off the affected leaves and give the plant special attention, for it is poor policy to allow any of the spores to develop in the field, where they have so much of a chance to be carried over the entire patch by the wind.

It is not a bad idea to go over your patch and make some little memoranda of the various characteristics of growth in the different varieties. Where you find a variety making slow growth with the same advantages as the one alongside, which is making a good strong growth, you will probably want to give that variety a little more feed in the house to get the best results. Where you find one of rank growth and inclined to be sprawly you will want to plant it where it can be well staked.

A. M. HERR.

Grouping in a Botanical Garden.

In the accompanying drawing, which is meant to be merely a rough sketch, the round beds appear larger than is necessary; a six foot or even a four foot bed would often be large enough. These round beds would by the selection of material give the garden its distinctive character. They would either be devoted to hardy plants, or to tender exotics of a flowering or foliage character, or both. In any case selection should be carefully adhered to, and no plant admitted permanently before passing the test of adaptability. Generally but one species should be grown in a bed, although many varieties may be used as in water lilies, poppies, pinks, hollyhocks, geraniums, roses, asters, azaleas, primroses, polemoniums, and as in group 25, with lantanas, verbenas, coleus, perillas, variegated mints, thymes, salvias, monardas, stachys, lamiums, callicarpa, vitex, clerodendron, lavender, hyssop, balm, sage, rosemary, or whatever may be selected to represent a group; they should be plants of known adaptability. Otherwise, they should first be tested experimentally.

This knowledge is the most difficult to acquire in every climate, and for this reason I have often urged that parks and gardens be planted in this way. But governors, politicians, and their *engineers* do not seem to regard parks in a sensible or right-minded way. They think it their duty to forward the backing and filling proposed by a college chum may be, chiefly because it will draw the resources of the people into their ever gaping pouches—not because it will improve nature's surfaces, or educate the toilers who make governors and tolerate them.

The number of distinct species of trees, shrubs, and plants which may be grown in a garden of this kind is between 2,000 and 3 000, costing approximately between $1,500 and $2,000 for purchase and incidentals. They may be planted for a similar sum, if the ground is good enough. So you see the *material* of parks and gardens is not the stumbling block it is supposed to be by many. A complete hardy garden is cheap. Even with considerable duplication for masses, it cannot cost much for the plants. In the plan, the 25 foot roads are the only ones gravelled. The woodland roads are grass—they are ever so much cheaper and nicer to walk upon as a rule. It would be possible to hollow out the woodland masses, and arrange seasonal displays for each of the summer months, in which case such a garden would concentrate and present every desirable and instructive feature.

The herbarium and museum would display the "botanical" plants between sheets of paper.

The conservatory is small. The glass in which to grow plants for it is large. Flowering plants should be renewed every week. It is geographically arranged, and so also is the division for economic plants.

The chief feature of course is the instruction to be derived by the aid of classification, and the character of ornamentation, which may be imparted by selecting bedding plants of any desired class—almost all the groups contain a variety to choose from.

A reference to a "Simple botanical classification", published in last year's FLORIST, will render quite easy the technicalities of the divisions and classes of such a garden. The groups are largely explained by their names.

JAMES MACPHERSON.

Trenton, N. J.

Key to Plan.

GROUPS OF THE GENERA PLANTARUM.

DICOTYLEDONEÆ

POLYPETALÆ.

1. Ranales.
2. Parietales.
3. Polygalales.
4. Caryophylales.
5. Guttiferales.
6. Malvales.
7. Geraniales.
8. Olacales.
9. Celastrales.
10. Sapindales.
11. Rosales.
12. Myrtales.
13. Passiflorales.
14. Ficoidales.
15. Umbellales.

MONOPETALÆ.

16. Rubiales.
17. Asterales.
18. Campanales.
19. Ericales.
20. Primulales.
21. Ebenales.
22. Gentianales.
23. Polemoniales.
24. Personales.
25. Lamiales.
26. Plantagineæ.

APETALÆ.

27. Curvembryeæ (Chenopodiales).
28. Multiovulatæ aq. (Podostemales).
29. Multiovulatæ ter. (Asarales).
30. Micrembryeæ (Piperales).
31. Daphnales.
32. Achlamydosporeæ (Santalales).
33. Unisexuales (Queniales, etc.).
34. Anomali (Salicales).

(42). Gymnospermeæ (3 tribes).

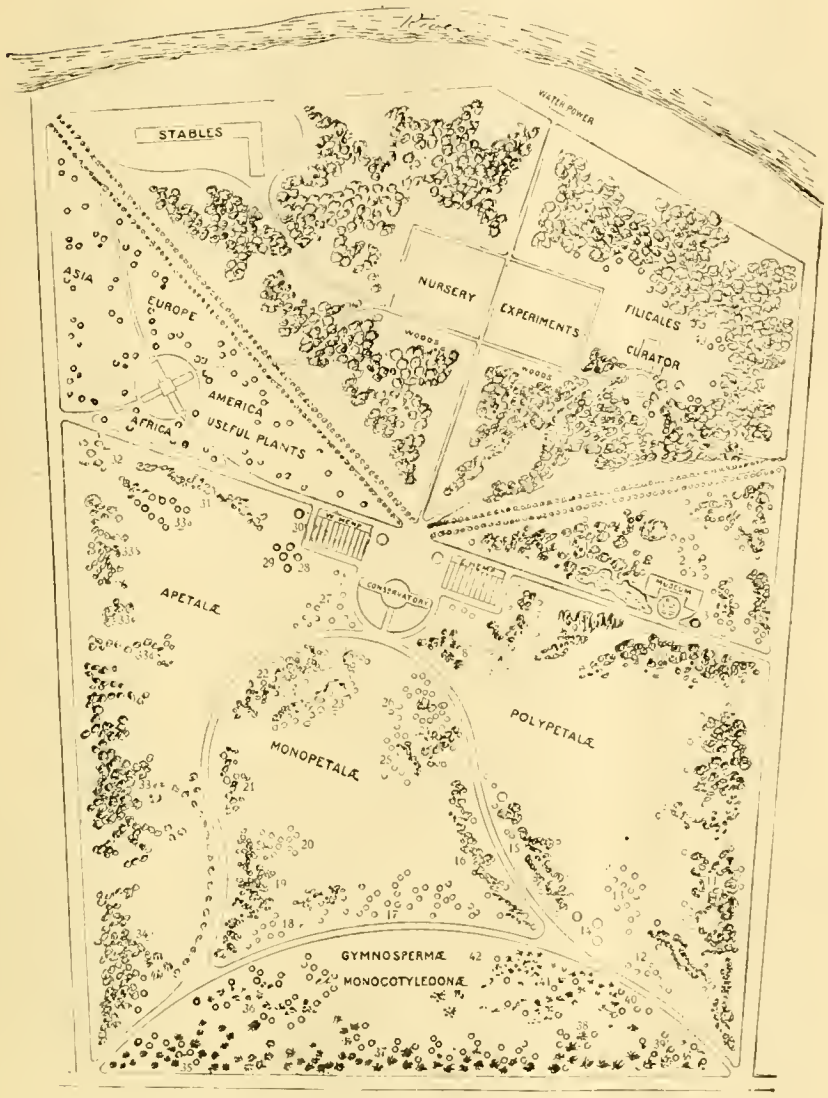
MONOCOTYLEDONEÆ.

35. Microspermæ (Orchidales).
36. Epigynæ (Narcissales).
37. Coronariæ (Liliales).
38. Calycinæ (Palmales).
39. Nudifloræ (Arales).
40. Apocarpæ (Potomales).
41. Glumaceæ.
43. Filicales (Acotyledoneæ).

Washington.

Business during the past ten days has been quite an improvement on what it had been previously on account of the closing exercises of the public schools, and the graduating exercises of the various educational institutions of the city. All kinds of flowers were in demand, as well as all the various designs used at such times. Now there is almost a complete cessation of nearly everything in the line of flower trade.

The hot and dry weather of the past two weeks is beginning to tell on the grass and shrubbery throughout the parks and reservations. The flower beds are kept in very good condition through constant watering, to do this quite a force is kept busy all day with the hose. There is a marked change (and I think for the better) in the beds in our public grounds this season, Mr. G. H. Brown having carried out his intention of doing away with much of the carpet bedding, echeverias, etc., and substitute the attractive French cannas and many of the annuals which are in constant flower; the beds have a more graceful and subtrop-



GROUPING IN A BOTANICAL GARDEN.

ical appearance; the three varieties of eulalias figure conspicuously in some of the reservations; they will look very handsome in the fall, when covered with their graceful pampas-like plumes. Arundo Donax, both the plain and variegated forms, Erianthus Ravennæ, Eulalia Japonica variegata—E. zebrina and E. gracilis and Pennisetum longistylum might be used in some of the larger reservations, as permanent beds with good effect; they could not fail to attract attention, and would be in the line of economy, as they would not require planting each year. There are one or two of these beds in private grounds about the city, which, for both grace and beauty can not be equaled by any flower beds in the district.

The nymphæas in the fountain basins are beginning to flower quite freely; they make a very interesting and attractive feature of the park decorations, and are admired more and more each season.

Mr. Brown is growing a number of chrysanthemums for fall planting. Last season Col. J. M. Wilson, engineer in charge of public buildings and grounds, exhibited an unusual interest in this very popular flower, expressing a desire to have more of them grown both in the parks and at the greenhouses; they had a magnificent exhibition of pot grown plants last season, among them some very fine seedlings, of their own raising.

The Florist Club has decided not to have a chrysanthemum show this fall. Last fall they had a magnificent display, yet it was a failure from a financial point. The entire work usually falls upon one or two, and hard work it is too with no pay and but little glory; this year, those few upon whom this work usually falls did not feel like taking upon themselves the great work and responsibility of getting up another and the inexperienced were afraid of the responsibility, therefore no show. There will probably be several individual exhibitions at the stores of our leading florists. There is to be one or two large food expositions this fall, and some of the boys are talking of renting a space in the hall with the food exhibitors and having a private exhibition; this however has not been fully determined upon, but it is probable.

Mr. Fishback, an amateur living near Anacostia, D. C., has for some time past and is at present supplying some of our florists with the finest sweet peas ever put on the Washington market. He has been experimenting for several seasons with this plant and judging from the flowers he brings in, he must have struck the perfect way of cultivating them. I understand he has quite a piece of ground devoted to their cultivation, and keeps several persons constantly employed gathering the flowers, which are as near perfection as to size and color, as could be. Mr. F. is careful in selecting the most striking shades and tints, discarding everything but the very finest and then growing them for all they are worth. He gives great care to the preparation of the soil, to which he attributes his success. They are all grown in the open ground; such blooms in early spring would bring him a handsome price.

The weather during June was very peculiar, the first ten days having been considerably cooler than usual. One of the coolest days on record for this season of the year was the 6th, with a minimum temperature of 46.3 degrees. The highest temperature was 97.5 degrees on the 24th. During the month the maximum temperature has been at 87 degrees or above on 15 days and 90 degrees or above on ten days. In connection with the high temperature, the month at Washington has also been an unusually dry one, only about 1¼ inches of rain having fallen, or one-fourth of the usual amount for June.

Last week the Washington Athletic Club and the Florists' Bowling Club took a run down the Potomac as far as Marshall Hall, for the purpose of getting a little cool breeze and testing their superiority; the Athletics having challenged the florists for a game of the best two out of three; for three new balls. The first game was easily won by the florists, the second and third were hotly contested, the Athletics securing both, but they had no walk over, capturing the prize by only a few points; after the bowling was over they put the evening in very pleasantly dancing and amusing themselves in many ways.

Very little is being said about the convention, it being so near us this year I presume the boys think it not worth while looking into R. R. rates so early, as that matter can all be attended to at this end of the line, without the usual delay of corresponding. I expect a good many will attend the meeting however; interest usually increases as the time for the meeting approaches. REYNOLDS.

Cleveland.

Why do our southern brethren imagine that the cities of the north can dispose of unlimited quantities of cape jasmines, etc., in the spring when there is such an abundance of home grown flowers. They have made shipments time and again at this season of year, and always with disastrous results so far as our city is concerned. Do they not know that during the months of April, May and June there are thousands of roses, carnations and other staple flowers that go to waste and there is no room for extra stock. No matter if it is a novelty in the market the demand does not justify the trouble and expense of shipping flowers north at that time. Cape jasmines are generally consigned to a commission house who deals in fruits, vegetables, etc., and as they have no way of disposing of them they are sent to one of the florist stores with the request that they place them on sale and report the result. In one lot of seven boxes that we handled this spring the total sales amounted to two dollars. We kept one dollar as our share in the transaction. Can you imagine what the shipper got after the commission man took out the cost of handling and freight charges? This spring some poor deluded soul down in Mississippi sent us a letter

saying he would ship us some magnolia buds and to follow directions that would come with them. In due time the box arrived and the directions noted, which were to the effect that they should be carefully unpacked and placed in water and to await results and then let the shipper know what the demand would be, as he could ship quaatities of them. We are still in doubt as to *what the demand will be*, as the buds failed to budge one peg. And no doubt our friend in the south is wondering at our delay in not wiring for a second supply. The charges on box were prepaid ($1.50).

J. M. Gasser is rebuilding six large houses. Mrs. James Eadie is building two houses, each 20x100. N. Soetga will build a house 16x60.

New York.

The New York Florists' Club held aa interesting meeting on Monday evening, July 9, at which Mr. Edgar Sanders of Chicago read an entertaining paper giving his reminiscences of the florist business. His descriptions of the wonderful construction of the old times called floral designs and of the methods employed in the days of flues, small glass, hand made labels, etc., were listened to with delight and at the close a unanimous vote of thanks was tendered him.

The committee on revision of by-laws reported a large number of important changes and their recommendations will come up for action at the August meeting.

The transportation committee recommended the Central Railroad of New Jersey as having given the best terms for the Atlantic City trip, and it was voted that this route be selected.

Mr. Leuly was confirmed as captain of the bowling team to represent New York at the great tournament which will take place at Atlantic City.

Philadelphia.

There is nothing new to be said of the state of trade, it is the same old summer business as of yore. Carnations seem to be more plentiful than usual at this season and these, with roses and sweet peas make up the average florist's assortment. Gladiolus from outside are now commencing to come in, and vases of these will soon grace the counters and doorways of the stores, the old sign "5 cents a stalk," which by the way is a fixture in some establishments, ornamenting (?) the center of the bunch.

Mr. Verner, gardener to the late A. J. Drexel, and who grew such fine chrysanthemum plants for exhibition, has gone into business for himself near Darby, Pa. He has erected three large houses and intends to do a general business, growing plants and cut flowers. We wish him every success in his new field.

Convention matters are now the main topic of conversation here and things are rapidly getting into shape. The hotel committee visited Atlantic City last week and after a canvass of the hotels and large cottages all doubts as to their being able to house the visitors were dispelled and no one need stay away on that account.

Atlantic City is becoming more attractive every year. There are many handsome residences being added each season and the hotel service is perfect. Originally this place was a deserted village during the winter months, but of late years the majority of the large hotels have been compelled to keep open the season round in order to accommodate the crowds that are continually seeking health or recreation at this now famous resort. A trip to Atlantic means that visitors are to simply throw all cares to the winds and enjoy themselves as they think best, getting both rest and recreation at the same time.

This place is the great playground for the tired and sweltering inhabitants of Philadelphia during the months of July and August. Hundreds of elegant cottages are owned by wealthy residents who make this their summer home, and thousands spend their weeks or months of vacation at the many hotels or cottages who especially cater to them.

Old ocean while always the same, is ever new to the visitor, who will take a chair in one of many of the pavilions along the board walk and gaze for hours on the waves breaking on the strand and listening to their dull monotones, or on the everchanging throng that crowd this most wonderful of all promenades. K.

Hotels at Atlantic City, N. J.

The committee have obtained from the United States, the largest hotel, a special rate of $2.50 per day and a guarantee that they can accommodate four hundred guests. From at least one-half the rooms there is an ocean view, and broad piazzas surround the hotel, from which can be seen an ever moving panorama. There are also many other hotels and cottages who have promised the committee they will make room for the delegates, which list, with prices, is given below.

NAME.	PROPRIETOR.	SITUATION.	CAPACITY.	RATES PER WEEK.
Albemarle,	C. E. Cope,	Cor. Virginia & Pacific Aves.	150	$8.00 to $14.00
Amole,	Mrs. S. C. Amole,	21 South, South Carolina Ave.	40	8.00 to 12 00
Ardmore,	Mrs. Story,	166 South, Virginia Ave.	125	8.00 to 12 00
Baltimore Villa,	Mrs. Hallahan,	120 South, Tennessee Ave.	40	8 00 to 12 00
Belleview,	Mrs. McClure,	Ocean End, New Jersey Ave.	100	10.00 to 15.00
Brevoort,	Mr. Norris,	18 South, South Carolina Ave.	60	8.00 to 12.00
By-the-Sea,	"	Cor. Mass. & Pacific Ave.	50	8.00 to 12.00
Carlyle,	Mrs. Hotine,	102 South, So. Carolina Ave.	150	8.00 to 12.00
Clifton,	Mrs. Cope,	Cor. Atlantic & Conn. Aves.	50	8.00 to 12.00
Edgewater,	Miss Parkenson,	123 South, So. Carolina Ave.	50	10.00 to 12.00
Castlemere,	Mrs. M. Muldune,	106 South, So. Carolina Ave.	30	8.00 to 12.00
Epworth,	M. M. Downs,	121 South, So. Carolina Ave.	40	8.00 to 12.00
Glenville,	Mrs. Hopkins,	South Tennessee Ave.	100	8.00 to 12.00
Hewitt,	W. S. Ives,	29 South Pennsylvania Ave.	60	10.00 to 12.00
Berkeley,	Bew Bros.	Ocean End Kentucky Ave.	150	12.00 to 18.00
Elberson,	Mrs. M. J. Eckert,	Cor. Tenn. & Pacific Aves.	200	10.00 to 12.00
Hoffman,	Mrs. Calloway,	South Pennsylvania Ave.	200	18.00 to 20.00
Wellington,	H. S. Milnur,	South Kentucky Ave.	300	15.00 to 20.00
Wiltshire,	E. L. Chaudler & Co.	South Virginia Ave.	150	15.00 to 25.00
Lehman,	Miss Lehman,	114 South Penna. Ave.	200	15.00 to 20.00
Lelaode,	S. Wagner,	Mass. Ave. and Ocean,	150	15.00 to 25 00
Louella,	Mrs. Carver,	138 South Tennessee Ave.	40	8.00 to 12 00
Monterey,	E. K. Newcomet.	Virginia Ave. Ocean End,	100	12.00 to 20 00
Ocean Villa,	Mrs. Schernberger,	So. Carolina & Pacific,	50	8.00 to 12 00
Park Cottage,	M. B. Walker,	1302 Pacific Ave.	30	9.00 to 12.00
Raymond,	Mrs. M. D. Evans,	South Virginia Ave,	75	12 00 to 18.00
Saratoga,	Mrs. S. A. Haines,	South Carolina Ave.	40	10 00 to 12.00
Upton,	Mrs. Fothergill,	South Tennessee Ave.	50	8.00 to 12 00
Vinedole,	Mrs. Frambes,	South Pennsylvania Ave.	40	8.00 to 12.00
Windsor,	G. Waters & Son,	South Illinois Ave.	250	18.00 to 30.00
Fraymore,	W. W. Green & Co.	South Illinois Ave.	250	18.00 to 30.00
Brighton,	F. Hensley & Son,	South Indiana Ave.	300	20.00 to 35.00
Dennis,	Joseph Barton,	South Michigan Ave.	500	18.00 to 30.00
Shelburne,	J. W. Southwick,	South Michigan Ave.	200	18.00 to 30.00
Haddon Hall,	Leeds & Lippincott,	North Carolina Ave.	250	18 00 to 30.00
Chalfonte,	Mrs. Roberts & Son,	North Carolina Ave.	250	18.00 to 30.00
Kenilworth,	Mrs. Grubb,	Kentucky Ave. Beach End,	150	15.00 to 20.00
United States,	Mrs. J. S. Davis,	Maryland & Pacific Aves.	Special rate $2.50 per day.	
The Stratford,	(European plan),	Beach End Kentucky Ave.	$1 50, $2 & $2.50 per day; 65 rooms.	

St. Louis.

Affairs have remained quiet during the past week, several large funeral orders being about the only events at all noticeable, although several quite good shipments have been made to Little Rock, Ark., owing to the "Competitive Militia Drill" in progress at that point. About the only stock at all good that is coming in is the summer roses, such as Perles, La France and Niphetos, some of them evidently from young stock. The growers are all busy replanting and straightening up for the coming season, and will soon have finished.

Being at Gratiot station lately, I had the pleasure of calling on Mr. Herzog, who has for the last year had the greenhouses at that place. The plant consists of six 100-foot houses, three 20 and three 10 feet wide. The large houses are planted to roses, smilax and carnations respectively, and two of the smaller ones to carnations, while the remaining one is used as a propagating house. The plant when assumed was in poor shape, but has been steadily improving under the intelligent work put on it. Last season the houses were all reglazed, changing from butted to lapped lights, and a new roof being put on the propagating house. This season the heating system is being changed and several boilers shifted so as to give better and more easily regulated control of the heat; the system is also changed from open tank to pressure, the same pipes being used, however.

One of the most important and best paying improvements is the location of a plunger pump, operated by horse power at the base of the bluff upon which the greenhouses are situated, and which insures an unfailing supply of water during the dryest seasons. The pump is capable of throwing sixty barrels a day, and is used but a short time mornings and evenings, giving an abundant supply. Besides what is used in the houses enough water is had to keep a large patch of carnations in elegant condition, and from their sturdy growth and healthy color it can be seen that they are making ample returns for the water applied.

The rose house contains fifteen hundred plants, mostly Perles, La France, Hoste and Niphetos. A few Kaiserin are also being tried. They have been planted about two weeks and are starting nicely. The carnation houses will be planted principally to McGowan for white, and Portia and Garfield for red. A few Tidal Wave and Daybreak are also being tried. Fifteen hundred McGowan and about the same number of red will be planted. The smilax house has been a great success this season, there having been no difficulty in disposing of every string cut, and it will be filled up in the same manner this year.

Mr. Herzog is a progressive, wide-awake man, and from his conversation it can be seen that it won't be many seasons before his place will be as up to date and convenient as any.

The committee appointed to prepare a list of events to be competed for at the



ARE THEY FIRST-CLASS PLANTS.

florists' picnic have prepared the following, which are mostly open to all: 100 yard dash, running broad jump, potato race for boys and girls under 14 years; slow race, time limit 10 minutes; egg and spoon race, ladies, 25 yards; sack race, 50 yards; 3 legged race, 75 yards; 50 yard dash, boys 14 and under; 50 yard ladies race; tug of war, and bowling contest. It is whispered that the tug of war will be a continuance of the one supposed to be perpetually existing between the retailers and fakirs. The winners will be able to offer up their thanks in smoke, as a box of cigars goes to the winning team. The terms of the bowling contest have not as yet been perfected.

R. F. T.

Are They First-Class Plants.

A subscriber writes us a history of a purchase of rose plants in which the seller had stated (by mail) that his plants were first-class, and he sends us the plants of which we present an engraving herewith as samples of the stock he received. He asks us if they can by any stretch of courtesy be called first-class. While we have some decided opinions on such matters it seemed wise to present the matter to the trade for general discussion, and (sub rosa) as a convincing argument in favor of our oft repeated suggestion that the Society of American Florists take up the matter of preparing a classification of plants by means of which sellers might intelligently offer their stock and buyers make their purchases with discrimination.

Objection has been urged against classification on the ground that it would be impossible to cover all the various little points that distinguish one grade from another. To this we reply that nothing is impossible and that the classification of plants most commonly bought and sold through the medium of correspondence would be certainly no more difficult than the classification of wheat, corn, oats, etc., as now done by dealers in grain.

But don't forget the inquiry. Write us your opinion as to whether the plants illustrated are first-class, and if not, then in what class would you place them: second, third, fourth, or culls?

Chicago.

The cut flower trade is almost at a complete standstill. In local retail circles there is practically nothing doing. Here and there a funeral order serves to break the monotony, but there is little even of that. As Joe Curran expresses it: "People are too hard up to die even, these days."

The shipping trade, what little there is of it at this season of the year, is seriously hampered by the railroad strikes. Very few actual losses from goods being tied up in transit are reported, since all express companies are extremely cautious in accepting freight over any lines that are at all doubtful as regards their ability to forward goods on time.

The stock received in the market continues extremely poor, particularly roses. Am. Beauties, with few exceptions, are cut from young stock and are very short stemmed; these however are the only flowers which meet with any demand at all. As regards summer annuals there is practically no demand.

M. F. Gallagher has turned a full blown soldier these troublous days. With the calling out of the 2d Regiment last week M. F. assumed his duties as quartermaster. If Mr. G. takes as good care of the boys in his regiment as he evidently does of himself, to judge by his portly figure, there will be little room for complaint. There is a story going around, for the truthfulness of which however we cannot vouch, that the quartermaster contemplated the adornment of the mess tables with a bunch of American Beauty roses. The boys in blue, however, vetoed any such proceedings, as in their estimation a good round of beef had more staying qualities than all the posies in Cook County.

Geo. Wittbold has built two new houses 18x21x120 feet long. In addition to this he has moved the World's Fair Carmody-Moninger show greenhouse to his place, where it will be used as a show greenhouse and office.

The plant trade of the present season,

which has just come to a close, has been a rather unsatisfactory one. While some of the growers have sold out pretty clean, others are caught with a large stock of bedding stuff left over. Those who were fortunate enough to sell out pretty clean had to be content with low prices, as sales had to be forced, and as a consequence there was more than the usual amount of cutting in prices. Geraniums out of 4-inch pots set out which in former years brought $2 per dozen for well grown plants were sold this year at from $1.25 to $2, and in many instances as low as $1, with the same corresponding drop all through the list. These low prices are bad enough, but when it comes to carrying over a large surplus besides the result is most discouraging. Some growers take things philosophically and express themselves as being satisfied with the result, considering the times, as they were not looking for a very brisk trade, and so trimmed their sails accordingly. Others again were deceived by the hopeful outlook in the early part of the season, when, owing to the extraordinary warm weather at such an early date, the movement in spring stock commenced with a rush. The sudden check, however, which came immediately after with the change of weather had a most disastrous effect on the trade. Many orders had been filled, beds and vases were planted and the work had to be done over again, and although in most cases through no fault of the florist, the loss in many instances had to be borne by them. When the weather became more settled again the season was pretty well advanced and a number of orders were countermanded.

We visited a number of the leading establishments engaged in this line of business on the south side; all of these places, however, do also a considerable trade in cut flowers at retail. Says Sam'l Muir:

"The spring trade in plants with me was fairly good, and my stock, as can be seen, is sold out pretty clean. Prices lower than last year, and considering that many of the early filled orders had to be planted over again the profits are small. The cut flower trade this season was not nearly as good as last year, notably as regards decorations, the falling off in this line being particularly noticeable."

Mr. John Weston of the Chicago Floral Co. reports plant sales very quiet, and considerable stock is left on hand. This firm carries a large stock of decorative palms and plants, and a fairly good business was done last season, but not as good in comparison as former years. There is quite a stock of chrysanthemums grown here and the plants, some of which will be exhibited at the coming show, are growing well. Here by the way we saw a house of Edna Craig carnation still in good condition. Mr. Weston speaks very enthusiastically of this sort, as his experience with it last winter was very satisfactory, and he intends growing it again this year.

Mr. Hulmers of the Art Floral Co. expresses himself as satisfied with the spring plant trade. The houses are pretty well emptied, but prices realized were considerably below former years. This house also does quite an extensive business in cut flowers and decorations. Business in this line also is reported as having been fairly good, though somewhat less than last season. Orders for decoration here, as elsewhere, show a decided falling off. The sale of palms and other high priced pot plants, of which this firm carries a fine stock, is also reported as extremely light. Plants in bloom on the other hand, such as azaleas, genistas, etc., sold well.



[Reproduced from London Punch.]

THE ORCHID IN CARICATURE.

J. T. Anthony's foreman complains of the dull bedding season. This house had an unusually fine stock, but quite a large lot is left unsold. Cut flower and decoration demand extremely light. Orchids, especially cattleyas, of which this establishment makes a specialty, sold pretty well. We note a dozen or twenty very fine blooms of Cattleya Mossiæ ready to cut.

E. Hobbs tells the same story—plant trade quiet, with low prices. Flower trade less in volume than formerly.

J. Kidwell expresses himself as satisfied with the season, although the plant business proved somewhat lighter than formerly. In the flower line Mr. K. has a large trade in funeral work, which has kept him busy most of the time. We note some very fine pelargoniums here; the plants are exceedingly well done and seem to take well.

The store men located in this section of the city, which contains probably the largest number of heavy flower buyers, have experienced the same depression in business as those down town; in fact as these houses depend largely on orders for decorations and the sale of first-class cut flowers they feel the effects of a marked decrease in demand in these lines most keenly. Wm. Smyth says: "Business up to Christmas was by far the dullest I have experienced since entering business. After that, however, for three or four months trade was good, but orders for decorations were very limited and generally cut down to the lowest notch in price."

Chas. Samuelson reports business fairly satisfactory, but complains of the cutting in prices. Good demand for A-1 quality in all grades of flowers except bulbous stock, which was very slow. Table decorations, which form an important item at this establishment, were not extensive, and instead of a steady increase, as formerly experienced, show a falling off.

Klunder's experience was nearly the same; a deplorable falling off in extensive decorations for receptions and weddings is especially noticeable, and the same is true of table work. The demand for high grade stock in cut flowers very good. "First-class Beauties," says Mr. Klunder, "Testouts, Meteors, Bridesmaids and La France I find always in good demand, and the former especially so. Fancy carnations also sell well and at good prices, but medium quality stock in this locality sells very slowly, and poor stock has no show whatever. There was little call for spring flowers this year. It seems the society season this year came to a close at a very early date, many of our best flower buyers starting for Europe and other points as early as April."

The Orchid in Caricature.

The accompanying engraving, reproduced from London *Punch*, appeared in that journal with the title "Interesting development of the 'Josephus Cubicularius' Orchidensis."

Most of our readers have heard of Mr. Joseph Chamberlain, the well known lover of orchids, and who has been popularly dubbed "Orchid Joe" from his habit of always wearing an orchid flower in his button hole. Mr. Chamberlain is a member of the British Parliament and prominent in politics, and his fondness for orchids evidently suggested the use of these flowers in the cartoon. His great wealth was acquired from the manufacture of screws, which explains the meaning of the flower in the lower left hand corner.

We are indebted to Mr. A. Dimmock for the copy of *Punch* from which the engraving is reproduced.

Cincinnati.

Again we report the same old chestnut, "dull." That little word expresses much. Think of people ordering wedding hand bouquets and wanting to pay 15 cents for the best two and 10 cents for the balance. This actually occurred at an "over



The Leedsii section in bloom. *Daffodils in the grass.*
General view of a section. *Orinatus in flower.*

VIEWS ON MR. W. BAYLOR HARTLAND'S DAFFODIL FARM NEAR CORK, IRELAND.

the Rhine" store one day this week. Fred nearly fainted when the ladies named the price.

Albert McCullough and daughter returned home from Europe July 5. Report rather a rough voyage, but as both were good sailors they did not miss any meals. Mr. McCullough reports heavy rains all through England and Holland, and prospects not flattering.

The 4th of July passed off quite noiselessly, Geo. Meyers, with Walter J. Gray, being the only florist who thought his hand stronger than a cannon cracker. The damage might be worse, but George will not try the experiment again.

Our florists are having considerable trouble with asters. The plants look healthy until they commence to show bloom, when they turn brown and die.

Henry Schwartz is building a new greenhouse 15x60 feet. This makes four houses of this size in his plant in connection with his office and shed 11x26 feet. He has been in the business 3 years, and reports a good trade.

The retail florists in general seem to think their trade for June was better this than last year.

W. C. Nolan of East Walnut Hills is building a greenhouse 15x75 feet; this makes 7 houses in his plant. W. C. reports trade considerably better than last year. He has had quite a lot of bedding for the city water works around their buildings.

M. Rice of Marschuetz & Co., Philadelphia, is in the city stocking the boys up with florists' supplies.

Miss Honaker of Lexington, Ky., made us a short call on her way to Ft. Wayne.

We now have good rates to Atlantic City and will have quite a party from here. All neighboring florists wishing to join our party will address E. G. Gillett, 134 Walnut street, as early as possible. He will give rates and other particulars.

Our first annual picnic is progressing splendidly, and if we have a favorable day will have a crowd. July 26 is the date and at Woodsdale Island. All our friends are invited. G.

St. Paul, Minn.

We have had a continuous drought for eight weeks, broken slightly by two or three light showers. In consequence the city is looking dry and barren. In spite of frequent sprinkling plants have gone backward. Florists' stock, however, is generally looking well. Mums were never better than now, roses are looking well, carnations planted out are in fair condition considering the season.

Trade is at a standstill, though there is enough funeral work to use up the supply of cut flowers. In roses some fine La France, Meteor and Kaiserin are being cut. The principal growers have thrown out most of their old stock of roses and are now busily engaged in planting new ones. More roses than usual will be planted this season, and there is a finer stock of mums here than was ever before seen. All this would indicate that our wide awake, hustling brethren have faith in the future trade here.

Some experiments in solid beds are being made this year and quite a number will try Brother Scott's suggestion to use water cement on their benches.

L. L. May & Co. are painting their entire range inside and out, putting in new benches, repairing boilers and later on in the season intend building several new houses.

We have not heard of any who intend to go to Atlantic City next month. We surely hope the saintly city will be represented.

Some of the prettiest plants of the season are the gloxinias now being displayed by A. S. Swanson. He has learned the art of having everything at the right season and with a neat attractive store merits a good trade. FELIX.

OBITUARY.

ROBERT JOHNSTON, the well known florist of Providence, R. I., died June 24, after a lingering illness, aged 65 years. He has suffered for more than a year from rheumatism. He was highly esteemed, not only in a social way, but by those who had business transactions with him.

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Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Toronto.

Replies to the questions asked for in the AMERICAN FLORIST'S spring plant trade report look very blue, but the truth must be told, and there is no earthly advantage to be gained by booming the trade up when there is no boom to it. The total sales were probably from 15 to 25 per cent less than last year, and many florists have a lot of "stuff" left on their hands. What was sold fetched prices below the average, well grown geraniums going for about 75 cents per dozen. Add to all this much difficulty in collecting accounts, and it does not take much perspicacity to see that, taking everything into consideration, the spring trade has *not* been as satisfactory as that of last year—not by a "jug full." Still, in spite of all this there is some little rebuilding going on, and a few new houses are being built. They tell me too that two or three new florists have started here this year. Evidently florists look for good things in the future, and think that "it is a long lane that has no turning." E.

Boston.

The flower stores in these summer days are bathed in an atmosphere of repose and recent cleanliness and furnished mainly with a couple of chairs near the door, with palm leaf fan trimmings and a general suggestion of lemonade and linen duster. Enquire for the proprietor, and you are informed that he has just gone out—time of return indefinite. By unanimous consent all the establishments, wholesale as well as retail, close at 5 p. m. every day excepting Saturday. The beach trade is not making itself felt as yet.

D. Zirngiebel is demolishing four of his old houses, which he will replace with two modern ones, heated of course by his favorite "hot water under pressure."

Foreign Notes.

The Lords of the Treasury on the recommendation of the First Commissioner of Her Majesty's Works and Public Buildings have raised the minimum wage for laborers in the Royal Kew Gardens to 19s. per week. Previous to 1847 the minimum appears to have been only 12s., in that year it was raised to 14s., in 1865 to 15s., in 1873 to 17s., in 1889 to 18s.

From the Kew Bulletin we learn that a fresh survey of the Royal Gardens has been made by the Ordnance Surveys, and it appears that the area in which cultivation is carried on under glass is over 2½ acres and the linear extent of the footpaths exceeds 14 miles.

A writer in the *Journal of Horticulture* says that there is every reason for supposing that the leading Japanese show flowers of 1893 will be practically extinct in 1903. "New and capable raisers are coming into the keenest competition possible with the old ones. Names that were once familiar as eminent growers of seedlings are unheard of now, and whether for better or for worse the best twenty-four Japanese are never likely to remain the same for any length of time while the flower offers so wide a scope for their skill as it does at present. When raisers, other than English can appreciate the merits and quality of the incurved section we may possibly see another revolution in the cultivation of this protean flower."

LEAF MOVEMENT IN CERCIS CANADENSIS, by Prof. S. G. Wright of Purdue University, is a recent monograph reprinted from the *Botanical Gazette*. The results of Prof. Wright's researches are given in tabular form, and there are several illustrations.

DO YOU WANT a list of firms in the trade that issue catalogues, with key showing proportion of space given each branch of the trade in same? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

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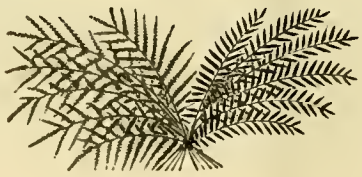
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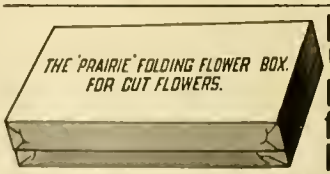


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34 & 36 RANDOLPH STREET,
CHICAGO.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.
Agent for finest grades Waxed and Tissue Papers.

J. B. DEAMUD & CO.
WHOLESALE CUT FLOWERS,
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HEADQUARTERS FOR AMERICAN BEAUTIES.

REINBERG BROS.
WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
51 WABASH AVENUE,
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NILES CENTER FLORAL CO.
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WHOLESALE GROWERS OF
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WHOLESALE FflorISTS
JOBBERS IN FLORISTS' SUPPLIES,
METS, FLORISTS' VASES.
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.
Mention American Florist.

DAN'L B. LONG,
WHOLESALE CUT FLOWERS,
495 Washington St., BUFFALO, N. Y.
SHIPPING ORDERS CAREFULLY ATTENDED TO.
OTHER SPECIALTIES:
Florists' Supplies, Wire Designs, Bulbs, Long's Florists Photographs (see large ad.
Catalogues, Lists, Terms, etc., on application.

Always mention the American Florist when writing to advertisers.

Wholesale Markets.

Cut Flowers.

NEW YORK, July 7.

Roses	.50@ 2.00
" per 1000	$2.00@$5.00
" Beauty,	2.00@12.00
Carnations	.50@ 1.00
" per 1000	$3.00@$3.50
Valley	2.00@ 2.50
Harrisii	4.00@ 6.00
Sweet peas, per 100 bunches	$1.00
Smilax	6.00@ 8.00
Asparagus	25.00@35.00
Adiantum	.75@ 1.00

BOSTON, July 7.

Roses, Niphetos, Gontier	1.00@ 3.00
" Perle, Sunset	1.00@ 3.00
" Bride, Mermet	2.00@ 8.00
Carnations	.25@ .50
Harrisii	6.00@ 8.00
Candidum	1.00@ 2 00
Lily of the valley	2.00@ 3 00
Stock	.50
Sweet peas	.10
Candytuft	.50
Adiantum	1.00
Smilax	12.00@15.00
Asparagus	50.00

PHILADELPHIA, July 9.

Roses, small	2.00
" large teas	3.00@ 4.00
" Beauties	8.00@15.00
Carnations	.50@ 1.50
Valley	4.00
Smilax	10.00@12.00
Asparagus	50.00
Harrisii lilies	4.00@ 6.00
Sweet peas	.50
Cornflower	.25@ .50
Cattleyas	35.00@40.00
Adiantum	.75@ 1.00

CHICAGO, July 10.

Roses, La France, Meteor	3.00@ 4.00
" Kaiserin	3.00@ 4 00
" General assortment, per 100	$5@$10
Carnations, long	.25@ .40
" fancies	1.50@ 2.00
Pæonies	3.00@ 4 00
Harrisii	8.00
Candidum	1.00@ 3.00

CINCINNATI, July 9.

Roses, Beauty	10.00@15 00
" Mermet, Bride	3.00@ 4.00
" Niphetos	4.00
" Perle	2 00@ 3.00
Carnations	1.00
Alyssum	.15
Sweet peas	.50@ 1 00
Valley	2 00@ 3.00
Smilax	15.00
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, July 9.

Roses, Perles, Niphetos, Wootton	2.00@ 3.00
" Bride, Mermet, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" La France, Albany, Hoste	2.00@ 3.00
" Beauty	5.00@15.00
Sweet peas	.15@ .25
Carnations, long	.50@ .75
" short	.50
Adiantum	1.25
Hollyhocks, asters	.50
Smilax	15.00
Ferns, common, per 1000	$1.25

BUFFALO, July 9.

Roses, Beauties	10.00@20.00
" Mermet, Bride,	3.00@ 4.00
" Meteor	3.00@ 4.00
" Perle, Gontier, Hoste	3.00
" Cusin	3.00
Carnations, long	1.00@ 1.25
" short	.60@ .75
Auratum lilies	12.00@15 00
Valley	3.00
Candytuft	.25
Sweet pens	25
Smilax	15.00@20.00
Adiantum	1.25
Asparagus	50.00

GEORGE A. SUTHERLAND,
Successor to PECK & SUTHERLAND,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield St., BOSTON, MASS.
New England Agent for the GREAT ANTIPEST.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

CUT SMILAX.
15 cents per String.
JOSEPH E. BONSALL, 308 Garfield Ave., Salem, O.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

BURNS & RAYNOR'S
SPECIALTIES:
American Beauty,
Bride,
Bridesmaid,
Meteor,
Sweet Peas.
BURNS & RAYNOR,
49 West 28th St., NEW YORK.

SPRING, SUMMER,
AUTUMN, WINTER.
In dull season and busy season.
All the year round.
Roses, Lily of the Valley
and all other choice stock can be obtained of
THOS. YOUNG, Jr.,
20 West 24th St., NEW YORK.

WALTER F. SHERIDAN,
• WHOLESALE •
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST.
Careful Shipping to all parts of the country.
Price list on application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT • FLOWERS,
57 W. 30th St., NEW YORK.
Mention American Florist.

MILLANG BROS.,
Wholesale Florists,
408 East 34th Street,
Cut Flower Exchange, NEW YORK.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY
Established 1879.

SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.
Mention American Florist.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS, Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

Seed Crop Report from Waterloo, Neb.

Since June 6th we have had bounteous rains and the outlook for a seed crop is much better than at that time. The rains however came too late to secure a good stand of vines of all kinds, but as we are now having some fine growing weather we will without doubt have an average crop. All kinds of vines with the exception of cucumbers are nearly ten days later than they should be, but with continued favorable weather are likely to mature all right.

The acreage devoted to cucumbers is not more than one-fourth that of last season. About the usual acreage has been planted to squash, pumpkins and melons, but the outlook for a heavy crop is not so good as at this time a year ago. There is not likely to be so large a surplus of vine seed this fall as we had in 1893.

Corn is very forward and is looking fine, but the acreage of sweet corn is not quite so large as a year ago. Tomatoes have not done well and the crop will be light. Onion sets will give an average yield with a slightly increased acreage.

Another grower says, July 5: "Crops in general are growing rapidly, weather the past week having been warm and showery. Sweet corn, late sorts, shows a very irregular stand owing to failure to germinate uniformly; it is estimated that 25 per cent of the acreage planted will be too late in maturing to make a good quality of seed. Hail, the night of June 28, destroyed a considerable acreage of cucumber and watermelon."

The Trade Association of London.

The Nursery and Seed Trade Association, limited, of London, publishes the following statement of its objects:

To protect the business of Nurserymen, Florists, and Seedsmen in the United Kingdom and abroad from fraud and losses.

To collect and disseminate information beneficial to Members of the Association and establishment of unity amongst the Trades.

Speedy and economical collection of debts due to Members.

Investigation and arrangement of Bankruptcies and Assignments.

Making trade inquiries, and giving information generally.

One of the special benefits derived from connection with this Association is that its members afford to each other, through the Secretary, mutual private information as to the financial position and character of and the extent of credit which may be safely given to old or intending customers.

The officers are a president, treasurer, three trustees, a committee of twenty-two, and a secretary. There is also a specified solicitor and banker. The president for 1894 is Mr. N. N. Sherwood, of Hurst & Son, 152 Houndsditch, E. C., and the secretary is Mr. G. Worrell, 30 Wood St., Cheapside, E. C.

The annual membership fee is 1 pound 1 shilling for home members and 2 pounds 2 shillings for foreign members.

WM. HENRY MAULE and wife registered in Erfurt June 19.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By all-round florist, well up in growing roses, doing funeral work, etc. Good references. C P., care American Florist.

SITUATION WANTED—By single competent florist and gardener; a good all-round man. Full particulars in answer desirable. Address W. K., "Gardener," 908 Spring Garden, Phila., Pa.

SITUATION WANTED—By a Danish boy, age 19, has been running a large steam boiler and helping in the greenhouses; can also drive and take care of horses. Address JOHN, 354 S. 4th Street, Aurora, Ill.

SITUATION WANTED—By thoroughly educated landscape gardener and horticulturist, to take charge of some private or public place in Florida. Best of references. Address W. K., 1219 Christy Ave., Louisville, Ky.

SITUATION WANTED—By a good florist and gardener, experienced in growing roses, carnations and general stock; can take a position in a commercial or private place; age 27 years, single. Can furnish good references. Address FLORIST, P. O. Box 1512, Waukegan, Ill.

SITUATION WANTED—As manager or foreman by a practical grower of roses, carnations, violets, chrysanthemums, decorative plants, etc., the forcing of bulbs, making up and decoration a life experience. Good references. State wages, etc. D N., 128 La Salle St., Room 8, Chicago.

WANTED—Good second-hand Hitchings water heater or small conical boiler. Address H. A. RAY, box 33, West New Brighton, N. Y.

WANTED—To purchase a florist store, with or without greenhouses. Middle or eastern states preferred. Address with particulars, J. CREASEY, Steubenville, O.

WANTED—A sober, willing, experienced florist who understands growing roses, carnations and general greenhouse stock. Address, stating experience, wages expected, references, and if married or single, FLORIST, Vincennes, Ind.

WANTED—A PARTNER—To join me growing and selling native and foreign hardy ornamentals, to meet the wants of American and foreign customers. Trade already well established and growing. A Christian and a prohibitionist preferred. Must be competent for the business, and free from bad habits. Some capital needed. Guaranteed a first-class opening for the right man. WILFRED A. BROTHERTON, Rochester, Mich.

FOR RENT CHEAP—Greenhouses, stocked for cut flower growing. J. H. ALLEN, Summerdale, Ill.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about $75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR RENT—Greenhouse—over 6,000 feet of glass, acres of ground; desirable location. R. S. DARE, Swarthmore, Pa.

FOR SALE OR RENT—Greenhouse, 2000 square ft. glass. For particulars inquire of THEO. NOEHLE, Green Bay, Wis.

FOR SALE—2 large Bay Trees, round heads, 7 feet broad, 12 to 14 feet high. Shown at World's Fair. VAUGHAN'S SEED STORE, Chicago.

FOR SALE—1000 feet of 4-inch cast iron pipe and fittings, as good as new. MRS. GEO. WALDBAUER, Saginaw Mich.

FOR SALE—1 Hitchings No. 14 hot water boiler, $45. 1 Weathered sume size, $40. Both A1 order. Write quick if wanted. R. A. MCPHERON, Litchfield, Ill.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE—Several good second-hand boilers, just the thing for greenhouses, for either steam or hot water heating, in first-class condition, and will be sold cheap. CLEVELAND STEAM BOILER WORKS, Cleveland, Ohio.

FOR RENT—A first-class commercial place in suburb of Chicago, containing 15,000 square feet of glass, well stocked with best varieties of forcing roses. Address RENTER, care Olsen & Hughes, 93 Wabash Ave., Chicago.

FOR SALE OR EXCHANGE for Iowa or Missouri land, greenhouse in good northwestern town—good 8-room house, good barn, have an excellent trade. Everything in first-class order and new, centrally located and on best street in town. Address W. W. H., care American Florist.

Hulsebosch Brothers,
OVERVEEN, near Haarlem, HOLLAND.
Bulbs AND Plants
We are now prepared to quote lowest possible prices for next July, August and September delivery.
Illustrated Wholesale Catalogues on application.
HULSEBOSCH BROS.,
ENGLEWOOD, N. J.

ONION SEED.
CROP 1894.
Prices for New Crop made on Application.
COX SEED AND PLANT CO.
411, 413 & 415 Sansome Street,
SAN FRANCISCO, CAL.

PRICES LOWER ON
Bulbs and Plants
OF STANDARD QUALITY.
For Catalogue, address
C. H. JOOSTEN, IMPORTER,
3 Coenties Slip, NEW YORK.

Smilax Plants Cheap.
Out of 2 and 3-inch pots, also transplanted plants out of boxes. Never had as fine and large stock before. Please state number you desire and I will give you the lowest prices. Safe delivery and best satisfaction guaranteed with every shipment. Sample order 10 cts. Terms strictly cash.
Address FRED SCHNEIDER, Wholesale Florist, Wyoming Co., ATTICA, N. Y.

WHY NOT TRY
A FEW ORCHIDS?
They are Very Cheap. They are Easily Grown. They Sell Well.
They always attract attention in store or greenhouse.
BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

CATALOGUE PRINTING. ELECTROTYPING.
Done with expert ability for Florists, Nurserymen, Seedsmen. Write to
J. Horace McFarland Co.
. . . HARRISBURG, PA

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

PAINT OR PUTTY.
For Greenhouses, Conservatories Or any other Structure.
No Paint can be made too durable for the greenhouse none too handsome for the homestead.
We make Paints BECAUSE WE KNOW HOW, and have facilities to do it. We ship to all Railroad Stations and Boat Landings without regard to distance, and will make prices laid down at your depot at figures which will pay you to patronize a cash market.
HAMMOND'S PAINT AND SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.

WE GUARANTEE

our double Von Sion Narcissus to be the TRUE golden yellow variety. We also guarantee all our Bulbs to be true to name and color. References as to the quality of our bulbs we can give you to nearly all the leading Bulb Importers of the United States.

OUR PRICES ARE EXCEEDINGLY LOW.
ASK FOR OUR 1894 CATALOGUE.

Send your orders AS SOON AS POSSIBLE, as we commence despatching Bulbs soon.

SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE, near Haarlem, **HOLLAND.**

5,000,000 FREESIAS

Buy FIRST HAND. We will deliver Freesia Bulbs, all charges for transportation paid, as follows:

3-8 to 3-4 inch per 1000, $4.00
1-4 to 5-8 inch per 1000, $3.00

Liberal discount on larger lots. Send for our price list.

Order **NOW** your Japan Bulbs, Longiflorum, Auratums, Rubrums, Albums, **we are Headquarters.** We are the **ONLY FIRM** in the U. S. who guarantee you **SOUND BULBS** delivered.

Address all communications to

H. H. BERGER & CO.,

(Established 1878.) SAN FRANCISCO, CAL.

FOR SALE. Now ready for delivery.

BERMUDA SPICE LILY } 7 to 9 in. bulbs, $20 per
Imp. Amaryllis Johnsonii, } 100; $170 per 1000.
FREESIA REFR. ALBA, 5-16 in. in diam., $2.50 per 1000 in lots of 5000.
" " " Seed, $2 00 per 1000.
GLADIOLUS SHAKESPERE, 2½ to 3 inches in diam. $6.00 per 100; $50.00 per 1000.
ZEPHYRANTHES ROS-A. } large bulbs, $2 per
" FLORIBUNDA } 100; $15 per 1000
" ATAMASCO, $1 per 100; $8 per 1000
NERINE SARNIENSIS } large flowering bulbs, $8
Guernsey Lily, } per 100.
CALLA BULBS, 4 to 6 inches at crown, $7 per 100. Best var. FRENCH CANNAS, $6 per 100; $40 per 1000.

Above prices are for delivery in New York, thence by Express or otherwise at purchaser's cost. C. O. D. from unknown parties.

R. H. JAMES,

Columbia Farm. ST. GEORGES, BERMUDA.

. . DUTCH BULBS . .

PETER VAN VELSEN & SONS,

Houtvaart-Overveen near Haarlem, Holland.

Growers of Hyacinths, Tulips, Crocus, Narcissus, etc. Catalogue free on application. Special prices given for large quantities.

Established 1834.

IMPORT BULB PRICES.

ROMAN HYACINTHS,
July 15th.
LILIUM HARRISII
AND **DUTCH BULBS.**
FREESIAS Ready, Select Bulbs, per 1000, $6.00.

NOW is the time to order. We are quoting the lowest rates of the season.

☞ APPLE GERANIUM SEEDS, new crop, per 100, 25c ; per 1000 $1.25.

NEW YORK: 26 Barclay Street. **VAUGHAN'S SEED STORE** 146-148 W. Washington St., CHICAGO.

Mention American Florist.

HERMANN'S SEED STORE,

413 EAST 34TH STREET,

Near Long Island Ferry, NEW YORK.

JUST IN, NEW CROP OF

Primula chin., Cineraria hybr.

We are now ready to book orders for
LILIUM LONGIFLORUM,
ROMAN HYACINTHS, LILIUM HARRISII,
LILY OF THE VALLEY, ETC.
Write for prices, it will save you money.

JOHN BARTH BOS,

BULB GROWER,

OVERVEEN, HAARLEM, HOLLAND.

Agents for U. S. and Canada:

C. B. RICHARD & CO.,

61 BROADWAY, NEW YORK.

Trade Catalogue on application.

ERNST RIEMSCHNEIDER, Altona, Hamburg.
LILY OF THE VALLEY PIPS, BULBS & CHOICE SEEDS
CATALOGUES FREE. ETC.
SOLE AGENTS FOR U.S. AMERICA & CANADA.
C.C. ABEL & CO. - BOX 920 NEW YORK.

PITCHER & MANDA,

HOME GROWN

Lilium Candidum Bulbs

NOW READY.

50c per dozen; $3.00 per 100; $25.00 per 1000.

SHORT HILLS, NEW JERSEY.

SEEDS! PLANTS! BULBS!

Everything appertaining to the **Farm** and **Garden** of the best and choicest quality. **PRICES RIGHT.**

Catalogue on application.

WEEBER & DON.

114 CHAMBERS ST., NEW YORK CITY.

Mention American Florist.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

News Notes.

NEW ALBANY, IND.—Ben Hains is preparing to start in the business here.

MINNEAPOLIS, MINN.—R. J. Mendenhall is adding about 6,000 feet of new glass.

PORTLAND, ME.—Albert Billings has started in the business at 277 St. John street.

SARATOGA, N. Y.—T. J. Totten has built one new house for American Beauties for summer flowers, 20x75.

TRAVERSE CITY, MICH.—Frank M. Paine will start into business here, beginning with a modern greenhouse 20x50.

RUSHVILLE, IND.—Geo. F. Moore has sold his greenhouses in Milton, Ind., and is now engaged in the business here.

PROVIDENCE, R. I.—John A. Macrae of Smith street, is building one new house 20x200 and is rebuilding two old ones.

COLORADO SPRINGS, COL.—Wm. Clark has built three new houses of which one is 25x160 one 20x100, and one 10x100.

RICHMOND, VA.—J. H. Harvey & Co. have built four new houses 14x75. W. A. Hammond has built two new houses of good size.

BURLINGTON, VT.—W. A. Lee is tearing down one of his houses and building another one of double the capacity to replace it. Fred Dewey is now out of the business. Mrs. M. D. L. Thompson is now the Queen City Floral Co.

MILTON, IND.—Geo. F. Moore has sold his greenhouses to Geo. H. Peet & Son. They are removing the houses to Cambridge, Ind., where they will start in the business. Mr. Moore has removed to Rushville, Ind., where he is beginning business again.

LINCOLN, NEB.—C. H. Frey has sold out his interest in the firm of Frey & Frey to his father, H. H. Frey, and has bought five acres of ground outside the city limits on which he is building nine greenhouses, of which two are rose houses 20x125; two carnation houses 10x125; one general house 20x125; two 10x125 one 8x100 and 12x60. Attached to same will be a sales room 16x20, together with good sized boiler house, potting sheds, etc. The whole plant will be heated by steam.

Misplaced Generosity.

George: "I have been invited to a flower party at the Pinkles's. What's it about?"

Jack: "That's one of the notions new this season. It is a modern form of birthday party. Each guest must send Miss Pinkles a bouquet containing as many flowers as she is years old, and the flowers must have a meaning. Study up on the language of flowers before ordering."

Florist's Boy (a few hours later): "A gentleman left an order for twenty of these flowers, to be sent to the Pinkles with his card."

Florist: "He's one of my best customers. Add eight or ten more for good measure." —*Society Journal.*

DO YOU WANT Mr. Scott's seasonable hints for the year in book form, so that you can refer readily to his suggestions for any week in the year? You will find them in this form in our trade directory and reference book for 1894. Price $2.00.

Prices Lower Than Ever.

Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to $5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

For general Japanese stock apply to

F. Gonzalez & Co.,

303 to 312 Wayne St., SAN FRANCISCO, CAL.

SMILAX

Transplanted plants, an honest sample of which will be mailed you for 10 cts. Price per 100, 75 cts.; $6.00 per 1000, cash with the order. First lot are all sold; next lot ready July 1st.

ALBERT M. HERR, L. B. 496, **Lancaster, Pa.**

Herr's Pansies are THE Pansies. See adv. later on.

CANNAS. Strong Pot Plants

ROBUSTA, fine for foliage.....@ 6 cents
MME. CROZY.....@ 9 cents
PAUL MARQUANT.....@10 cents
ALPHONSE BOUVIER.....@15 cents

W. A. MANDA,

The Universal Horticultural Establishment, SOUTH ORANGE, N. J.

SMILAX.

Plants from last fall; these have a foundation and will begin to run strong at once. $2.50 per 100; $20.00 per 1000.

CLEMATIS for Fall Delivery.

Special prices at wholesale, on application. Splendid stock and assortment.

F. A. BALLER, Bloomington, Ill.

CELERY PLANTS

WHITE PLUME, GIANT PASCAL, GIANT GOLDEN HEART and GOLDEN SELF BLANCHING.

Field-grown plants, $1.25 per 1000.

The New PINK PLUME, transplanted plants, $3.50 per 1000. Cash with order.

Sample mailed free.

C. M. GROSSMAN, Wolcottville, Ind.

ROSES. Mermets, Bride, Gontier, Perle, Clim. Perle, Sunset, Wootton, Niphetos, Hoste.

First quality stock from 4-in. pots.

PER HUNORED.....$10.00.
PER THOUSANO.....$90.00.

GEO. L. PARKER,

807 Washington St., Dorchester, Mass.

ROSES.

Clean, healthy stock

MERMETS, BRIDES, SUNSETS,
NIPHETOS, LA FRANCE, PERLES,
MME. WATTEVILLE, BON SILENE, METEOR,
PAPA GONTIER.

Strong plants, from 3-inch pots, $8 per 100; $75 per 1000.

WOOD BROTHERS, Fishkill, N. Y.

ROSES.

Strong, healthy plants, from 2, 2½ and 3-inch pots, price, $3.00, $4.00 and $6.00 per 100.

PERLE, SUNSET, NIPHETOS, MERMET, BRIDE, METEOR, WOOTTON, HOSTE, M. NIEL, LA FRANCE, AND ALBANY.

Strong AM. BEAUTY, from 2-inch pots, $4.00 per 100.

JOSEPH HEINL, Jacksonville, Ill.

FORCING ROSES.

STANDARD AND NEW KINDS.
PRICES RIGHT.

McCREA & COLE, BATTLE CREEK, MICH.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

THE AMERICAN FLORIST CO.'S

DIRECTORY

AND

REFERENCE BOOK

FOR 1894

CONTAINS THE FOLLOWING:

1. The names and addresses of the Florists, Nurserymen and Seedsmen of the United States and Canada, the exact branch of the business each is engaged in being indicated.
2. A separate list of firms that issue catalogues, the space devoted to each branch of the business in each catalogue being also given.
3. A list of the names and addresses of superintendents of leading parks in the U. S. and Canada.
4. A list of the principal cemeteries of America at which the arts of the landscape gardener and florist are used in beautifying the grounds.
5. A complete, alphabetically arranged list of Roses in commerce in America, with class, habit of growth, date of introduction, name of introducer, and brief, accurate descriptions of the flower of each. Synonyms are also plainly given.
6. A complete, alphabetically arranged list of Chrysanthemums in commerce in America, with class, and brief, accurate description of each. Synonyms are noted and varieties that are very popular with American growers are designated by a star, and this year's introductions by a dagger.
7. A complete, alphabetically arranged list of the Carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each.
8. Seasonable Hints for the year, arranged in weeks, written by Mr. William Scott, and covering every detail of a general florist business. This is decidedly the most valuable contribution to the literature of the trade ever published. It is written in a plain, practical way, by a man who knows what he is talking about.
9. A historical sketch of the Society of American Florists from its organization to date, including officers for each year and lists of essays read at each meeting, with other information of interest.
10. A similar historical sketch of the American Association of Nurserymen.
11. A similar historical sketch of the American Carnation Society.
12. A similar historical sketch of the American Seed Trade Association.
13. Similar historical sketches of the Florists' Hail Association of America; of the National Chrysanthemum Society of America; of the Florists' Telegraph Delivery Association.
14. A complete list of all National and Local Trade Organizations, with names and addresses of principal officers, time and place of meetings, etc.
15. Statistics of Commercial Floriculture in the U. S. from the last census.
16. Statistics of the Nursery Industry in the U. S. from the last census.
17. Statistics of Seed Growing in the U. S. from the last census.
18. A list of Leading Horticultural Societies, with name and address of the Secretary of each.
19. Full information about Express and Postage rates on plants, shrubs, trees, seeds and bulbs

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4-inch $10.00 per 100; 3-inch $6.00 per 100.

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160 " " 4-inch.....18c. each
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AMERICAN BEAUTY	2½-inch	$ 7.00	 3½-inch	$13 00	
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PERLES, SAFRANO, — SUNSETS, NIPHETOS, 3-inch pots, $7 00 per 100. — BON SILENE, BRIDES, 4 inch pots, $10.00 per 100. — MERMETS, MME. HOSTE,

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Write for prices, including delivery to your Express office. **A. S. MacBEAN, Lakewood, N. J.**

News Notes.

HARMAN, COLO.—C. J. Hurt is building 7,000 feet of new glass here.

JUNCTION CITY, KANS.—W. P. Ranson is again in the business here.

YOUNGSTOWN, O.—E. Hippard is rebuilding four houses each 20x100.

RUTHERFORD, N. J.—Mr. Wm. P. Kesteloo, the florist, and Miss Nellie Spects were married June 16.

SPARTA, WIS.—Mr. Nick Greivelding is adding a new house 18x100, upon which he will use 14x20 glass.

DES MOINES, IA.—W. L. Morris is building two rose houses each 20x116, and two violet houses each 11x116.

CHATTANOOGA, TENN.—The Chattanooga Floral Society now has 150 members and will soon give an exhibition.

TOLEDO, O.—Mr. Ewald Suder and Miss Ella Suder are taking a vacation in Europe, the latter to pursue her musical studies.

WASHINGTON, D. C.—Henry Holzapfel, Jr. has resigned his position with the World's Fair Bureau of Awards and has returned to his home in Hagerstown, Md.

DAVENPORT, IA.—C. Dannacher is now building one short-span-to-the-south house 200x20, and one 100x20 of the old style. F. L. Bills is building two houses 9x100 and one 100x11.

OTTAWA, CAN.—H. Parks is building a place of his own and his old landlord Mr. A. French takes the old place and will enter the business. Mr. French is now adding two houses each 100x20.

PARKERSBURG, W. VA.—Hail and wind destroyed three to four hundred panes of glass in the greenhouses of Adolph Hiehle recently. This is the first storm of the kind since he has been established there in 1877. He had no insurance.

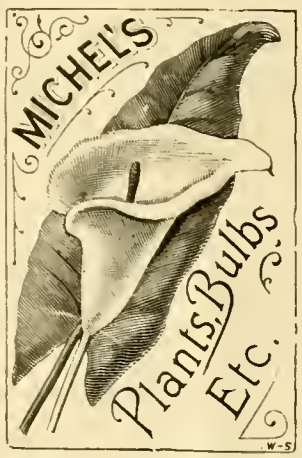
LANCASTER, PA.—Mr. A. D. Rohrer has retired from the business, having sold out to a new firm, Landis & Co. The new firm is composed of his nephew, Mr. A. K. Rohrer, and Mr. Leaman Landis, both men of long experience in the business.

DENVER, COLO.—Harrison H. Given is now building four rose houses and reglazing fourteen plant houses. C. J. Hurt is building 7,000 feet of new glass at Harman, Colo. J. L. Russell is building 10,000 feet of new glass in this city.

UTICA, N. Y.—P. Riley is building two 100-foot houses. P. Crowe is adding two houses, one 100 feet long and the other 140 feet. J. C. Biglow is building a new 100-foot house. R. Campbell has started in the business on Highland Ave.

TERRE HAUTE, IND.—John G. Heinl intends to build five or six new houses including a show house 70x20. Mr. Heinl has sold his new place to the Cowan Bros., having made arrangements with them to take the cut flowers they grow.

LONG ISLAND CITY, N. Y.—The greenhouses of Theo. Luckner being in the line of a large sewer now being built he has had to take the houses down, being indemnified for the trouble and expense, and he is in doubt as to whether he will rebuild on the old place or seek a new location.



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50,000 of leading varieties.
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Tuberous Begonias,
GRIFFIN'S STRAIN.
Medal awarded World's Fair.
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The Water Garden.
Special and Hardy Water Lilies of all colors.
VICTORIA REGIA AND V. RANDI, EURYALE FEROX.
Nelumbiums in variety, Hardy Ornamental plants, subaquatic plants, etc., etc. Nymphæa Laydekeri rosea (awarded a Medal at World's Fair); most charming of all the HARDY Lilies; $2.50 each.
Other Columbian Novelties see catalogue.
WM. TRICKER & CO., Clifton, N. J.

ZIRNGIEBEL GIANT PANSIES.
Owing to favorable weather, have been magnificent this season. Never before have we obtained such size and colors; and as usual, wherever exhibited, have eclipsed everything else, receiving also the most flattering testimonials from the leading florists and seedsmen all over the country.
New seed ready now of both the Giant Market and Giant Fancy in trade packets of 2,000 and 500 seeds respectively at one dollar each, with practical directions for growing pansies. Also plants for sale later on.
DENYS ZIRNGIEBEL,
. . . NEEDHAM, MASS.

Pansy ★ Seed.
The JENNINGS STRAIN of high grade Pansy Seed. New crop now ready. Saved with special care from only the very finest varieties and (warranted) first-class in every respect.
THE JENNINGS XX STRAIN.
The cream of Pansies. Grand colors mixed, pkt., 1500 seed, $1.00; 1 oz. $8.00.
The Jennings Strain, finest mixed, pkt. $1.00 about 2500 seed; 1 oz. $6.00; 3 ozs. $15.00. No skim milk in this strain. (They are just as good as I can make 'em). To my old patrons I would say they are a big improvement over last season—more variety and finer colors. The best strain for florists either for winter bloom or spring sales; all large flowering.
Black Dr. Faust, finest..... pkt., 2500 seed, $1.00
Finest Yellow, black eye..... " " 1.00
Pure White, the best..... ... " " 1.00
Victoria, bright red..... pkt., 1000 seed, 1.00
All my own growth of 1894. Half pkts. of any of the above 50c. Please send money orders or registered letter. Cash with order. Address
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Roemer's Superb Prize Pansies.
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RIESEN PENSEE
neue ernte fertig mitte Juni. Blumen uber 3 zoll im Durchmesser, schone Form, meist helle Farben, von unubertrefflicher Qualitat. 1000 Korn $1.00; 5000 Korn $4 in Briefmarken oder Post Anweisung.
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Pansies Worth Raising.
There is money in them. They have proved it again, even in these hard times. NEW SEED, perfectly ripe, READY NOW.
One package, 1-8 of an ounce.....$1.00
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EXTRA PANSY SEED.
MAMMOTH SUNBEAM STRAIN.
A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected; better seed plants this year than ever; receive very high praise from my customers; no finer strain offered anywhere; florists should sow of it.
Trade pkt., 500 seeds, 25c; 3 pkts. 60c; 6 pkts. $1.00. A pkt. of the new Monkey Face pansy with every $1 order.
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GARDEN SEEDS,
Plants, Bulbs & Requisites.
They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
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A grand selection for Stove, Greenhouse and Conservatory.

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Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich St., New York City.

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The new Carnation; pure white, delicately marked with red.

Price for well Rooted Cuttings: $3.00 per dozen; $12.00 per 100; $25 00 per 250; $90.00 per 1000. 500 at 1000 rate. Orders may be sent either to

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FRED. DORNER & SON,

Carnation Growers,

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Rooted Cuttings all sold or planted out. Field plants for sale in the fall.

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The Pines. KENNETT SQUARE, Chester Co., PA.

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

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is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. NO MORE SAMPLES—we cannot spare the time. Send for circular. Per dozen, $2.00; per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.

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HEALTHY ROOTED CUTTINGS
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SMILAX, 2½-inch pots.
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EASY TO GROW.

An exceptionally good and paying cut flower.

Strong young plants, $1.00 per doz.; $6.00 per 100.

Larger ones, $1.50 per doz.; $10 per 100.

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Eichhornia Azurea (New Blue Water Hyacinth), each 20c; dozen $1.75.

Eichhornia (Pontederia) Crassipes Major (Water Hyacinth), $2.00 per 100, prepaid, or $8.00 per 1000, not prepaid.

	Each	Doz.	Per 100
Nelumbium Speciosum.	$.40	$5.00	$25.00
Nymphæa Devoniensis	.50	5.00	
" Flava	.20	2.00	8.00
" Odorata.	.10	1.00	6.00
" " Gigantea.	.20	2.00	12.00
" Zanzibarensis Azurea, in bloom . . .	.40	3.50	25 00
" Rosea, in bloom. . . .	.40	3.50	25.00
" Dentata. . .	.50	4.00	30.00
Pistia Stratiotes or Water Lettuce		.15	1.00
Myriophyllum Proserpinacoides or Parrot's Feather. . . .		.15	1.00
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Small plants of N. Zanzibarensis and N. Dentata, 10c each, or seeds 10c per large packet, or $2 00 per ounce, not prepaid.

Nephrolepis Exaltata (Sword Fern), selected plants from open ground, $12.00 per 1000, or $2.00 per 100, delivered.

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The Finest Strain in the World.

Bright dark red	1000 seeds	$4.50
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White with carmine eye	1000 seeds	3.75
Mont Blanc, EXTRA	1000 seeds	6.25

Cash with order.

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From 2½-in. pots, @ $3 per 100.

STRONG SMILAX, from 2½-inch pots, $3.00 per 100; $25.00 per 1000.

PANSIES, from cold frame, $15.00 per 1000.

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Toads in the Greenhouse.

Your correspondent Mr. H. Goold is quite correct in what he says regarding the toad as an insect exterminator. The late Mr. James Taplin was a great believer in the usefulness of this creature, and always kept a number of them in his houses. When at South Amboy, N. J., years ago, in addition to the toads a large palm house was the home of several turtles and a few pet lizards, all very tame. The turtles were especially fond of worms, while the lizards, with their wonderful activity, made havoc among flies and any other winged insects. One of the lizards had a habit of following Mr. Taplin all over the house, and its death unfortunately resulted from this familiarity, as its master stepped back suddenly one day, unaware that it was at his heels, and crushed the confiding reptile. The toads were particularly useful in the fern houses as slug destroyers; if my memory is correct they didn't fancy sow bugs, but the turtles ate them eagerly. It made the boys very ready to pick up any stray insect they might see on their rounds, because it was amusing to see the reptiles gobble them down. R.

Chicago to Atlantic City.

The Chicago Florist Club has secured a special low rate to the S. A. F. convention at Atlantic City, over the Pennsylvania railroad. Train leaves Chicago at 3 p. m. Sunday, August 19, passing over the Allegheny Mountains in daylight and reaching Atlantic City Monday evening. Florists in the west and northwest who wish to join the party are cordially invited to do so. Berths may be reserved and further information obtained by addressing the chairman of the Chicago Club's committee, Mr. G. L. Grant, 322 Dearborn street, Chicago.

Botanical.

TEACHER—"'Ye shall sow the wind, and ye shall reap'—what?"

BRIGHT PUPIL—"Air plants."

—Chicago Tribune.

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3½-in	30c "	45c	65c
4-inch	35c "	50c	90c
5-inch	40c "	100c	$1 00

Freight is cheaper on large quantities. Send us a trial order. Samples and catalogues free.

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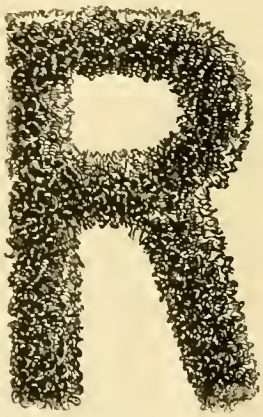
TOBACCO DUST. Per 10 lbs 50c; 25 lbs $1.00; 50 lbs $1.50; 100 lbs $2.50. Sample FREE.

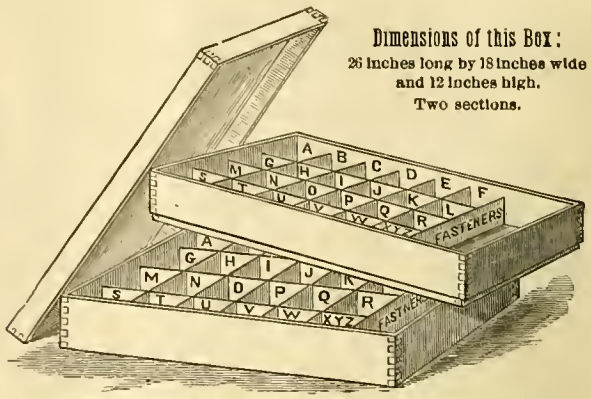
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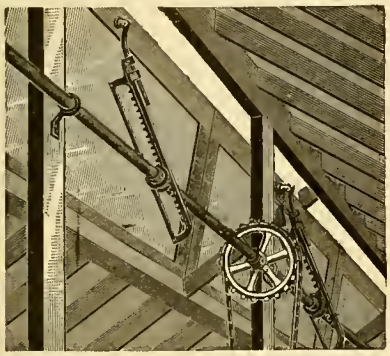
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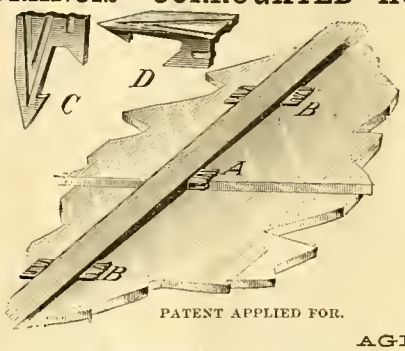
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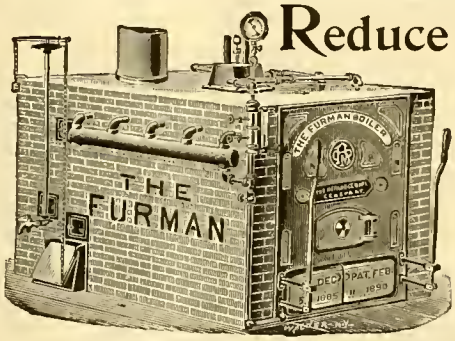
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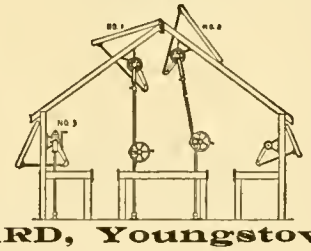
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Influence of Colored Light on Plants.

In *Public Opinion* for May 24 appears an article on this subject translated from the French of M. H. Marsan in the *Paris Revue des Revues*. Numerous experiments by French scientists are described and the following table is given as showing the results obtained by M. M. A. Villon.

"Taking as a base the growth under white light, and designating this by 100, we find:

Culture under white glass		100
" "	chrome orange	150
" "	violet with manganese	150
" "	cobalt blue	140
" "	blue from copper	120
" "	silver	60
" "	uranium	40
" "	gold	40
" "	red with protoxide of copper	15
" "	green with protoxide of iron	10

"M. Villon found that the best light is that which passes through the manganese violet, which allows the red light, the violet rays and calorific rays to pass through. Experiments made with flowers have shown that they grow more quickly under the influence of violet and orange color. The shade of violet in which red predominates seems to be most favorable. Red flowers, like the carnations and roses, accommodate themselves best to green light, blue flowers to yellow.

"This science relating to the influence of colors on plants has numerous shades, the discovery of which will doubtless prove a great benefit in the future development of vegetation. For example, according to M. Villon, in their earliest stages, roses develop best under a violet light, but when about to flower a gilden screen through which the green rays cannot pass serves best."

A New Use for Egg Shells.

A correspondent writes us that when visiting a florist in a small town he noted a curious way of treating some seed. This florist had filled a pan with soil into which he had plunged egg shells that had a small hole in the bottom, and these shells were also filled with soil and the seeds planted in the shells. The idea was that he might lift the seedlings without disturbing their roots, when the time came to transfer them to a pot. This elaborate carefulness struck our correspondent as quite humorous and in consequence he writes us a note about it.

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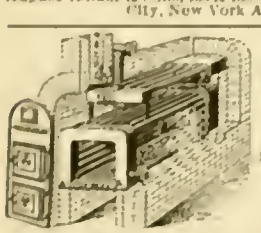
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1¾-inch pots,	per 100	$ 3.00	6-inch pots,	per 100	$22.00		
2	"	"	3.25	7	"	"	35.00
2¼	"	"	3.50	8	"	"	50.00
2½	"	"	4.00	9	"	"	75.00
3	"	"	5.00	10	"	per 100	10.00
3½	"	"	7.25	11	"	"	15.00
4	"	"	9.00	12	"	"	20.00
5	"	"	13.80	14	"	"	40.00
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DO IT NOW.
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KEENE, N. H., June 4, 1891.

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Announcement to Florists.

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Send for price list and samples and we know you will give us an order.

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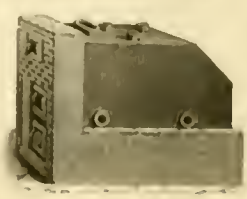
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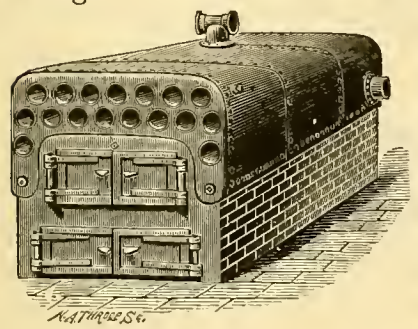
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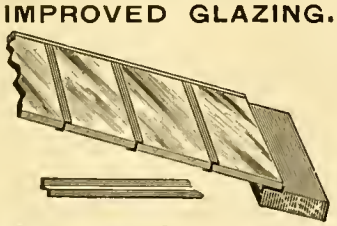
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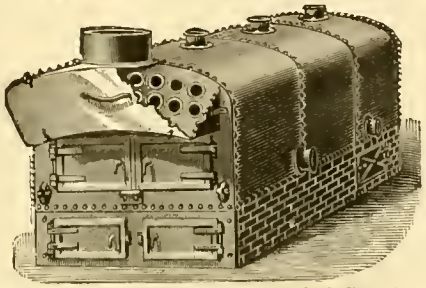
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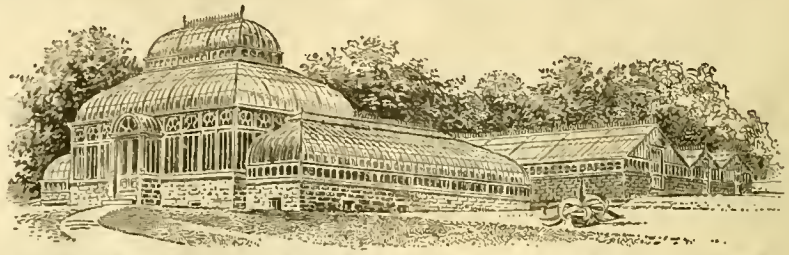
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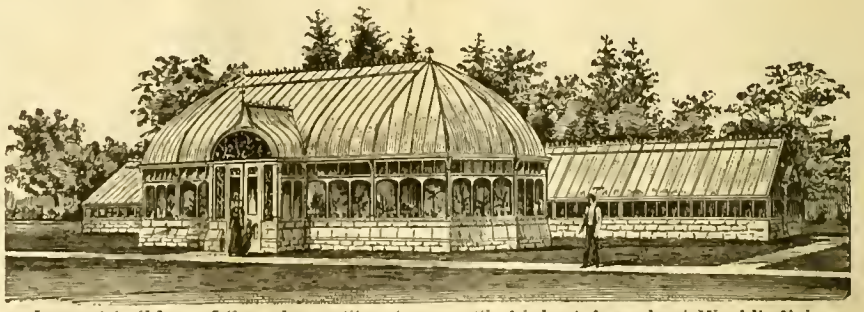
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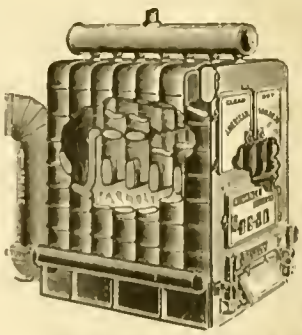
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THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

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The Tenth Annual Meeting
OF THE
Society of American Florists
WILL BE HELD AT
ATLANTIC CITY, N. J.,
AUGUST 21, 22, 23 & 24, 1894.

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YOU CAN never invest $2 to better advantage than in a copy of our trade directory and reference book.

Historical Reminiscences of the Chicago Cut Flower Trade.

BY F. F. BENTHEY.

[*Read before the Chicago Florist Club, June 28, 1894.*]

When we consider the magnitude of the cut flower trade of to-day in this city we can hardly realize the fact that scarcely twenty-seven years have elapsed since the first store for the sale of cut flowers was opened. Previous to that time the sale of cut flowers, mostly in the shape of bouquets, was so limited that scarce any note can be taken of this branch of the business, which has now overshadowed all other lines of floricultural pursuits.

To a Mr. Thomas, according to Mr. John Goode, who came here in 1845, belongs the honor of erecting the first greenhouse about 1835 or 1836, a sketch of which appeared a few years ago in the AMERICAN FLORIST; this was located on the corner of Dearborn avenue and Division street. Then came Samuel Brooks, who erected a small structure; a lean-to 12x50, corner Adams and Clark streets. Martin Lewis followed in 1850 or 1851, with a house of the same dimensions, but this was closed again, not paying expenses, until 1862, when August Dressel took hold, under whose able management the place flourished for many years; it is now owned by Mr. S. J. Pearce. This establishment was called the Sheffield Nurseries, nursery stock being its principal feature and was for a while in charge of the well known horticulturist John Goode, who later on formed a partnership with Andrew McAdams under the firm name of John Goode & Co.

In 1854 Archibald Williams built a small house 10x30 at Fullerton and Southport avenues, afterwards removing to Clark and North avenue, associated with Geo. Wittbold, now at 1708 N. Halsted street. The same year (1854) Job Carpenter built a 50-foot house on Lake street opposite Union Park, and this concluded the list of commercial greenhouses up to 1857. At this time the population of Chicago was about 75,000. Chas. Reissig, who in after years became a well known figure in the flower business, was then still in the boiler business. Although having built a greenhouse in 1853, he did not engage in the sale of flowers until a few years later.

In the summer of 1857 Edgar Sanders built a lean-to south of his cottage; this was the beginning of an establishment which a few years later became one of the principal and best known houses in the city. It was called the Lake View flower gardens and was located on Evanston avenue and Belmont avenue. To Mr. Sanders we are indebted for much valuable information relating to the early history of the trade. In fact all the notes up to and including the year 1868 are taken from his memoranda.

Several other men who afterwards became well known started about this time, Wm. Brooker in 1859, Sulzer Bros. in 1860 and Adam Blumenschein in 1861. The latter continued in business where he first started, Cottage Grove avenue and 29th street, for many years. Like a great many others Mr. Blumenschein came here a very poor man, a fact of which he was never ashamed in later years, being then well to do; he used to point out with pride the identical spot where he dug ditches in working out his poll tax of $2, being too poor to pay the money.

In 1866 we find eighteen establishments in existence with a total of twenty one greenhouses, two of them graperies, the whole containing about 25,000 feet of glass. Compare this figure with some of our modern establishments, say that of Reinberg Bros. with a total of 225,000 feet of glass, or Bassett & Washburn with 150,000 feet. Among others that we have not mentioned yet were Samuel Muir 1865, Robert Pouley 1866, and Pettigrew & Reid on North avenue opposite Lincoln Park, then a cemetery.

Up to this time little or no attention was paid to the growing of cut flowers. Although Edgar Sanders opened a store in 1859, this place was intended only for the sale of plants and shrubs during the spring months. But the spring of '67, Mr. Sanders opened a permanent store for the sale of flowers in the basement of 56 Clark street, and the same year Mr. Chas. Reissig opened for business, occupying part of the basement at La Salle and Madison streets. Then followed Gordon Bros., now of New York, Chas. Krueger, who had a store on Lake street, old "Doc" Farrell, Dearborn and Madison, Sam'l Muir on Lake street, and Desmond & McCormick.

The business meanwhile was steadily growing, but although the demand for cut flowers in every shape was constantly on the increase very few growers gave much of their attention to their produce. The stock as carried by the store men in winter consisted of camellias, which in those days were shipped in by Dryburg of Philadelphia, double and single primulas, heliotrope, abutilons, fuchsia blossoms, perhaps a few short carnations, stevia, eupatorium, etc. Roses were of course an unknown quantity. Here and there you might see a Safrano or Isabella Sprunt with stem two or three inches long. These were indeed a luxury, but to cut them with a leaf on the stem was considered a wantonness of which no grower who understood his business was supposed to be guilty. Gordon Bros. were the first to import roses from the east, New York, in 1869. These roses, Bon Silene and Safrano, though not cut with quite as long stems as we see roses now-a-days opened the eyes of our local men. The price paid them was from 10 to 15 cents, but the question that was debated by the grower was "will it pay to grow them?" The men of to-day may smile

when they hear this, but then the art of growing roses was not reduced to a science, and we know that the first men who started to grow roses in winter did *not* make it pay.

But now came the great fire of 1871, which burnt out every flower store as well as destroying the growing establishments located on the north side. For a while an impression seemed to prevail that for a few years at least there would be small need of a flower store. This, however, proved to be a mistake. Many of us who were connected with the business at that time will remember the boom that followed, commencing the winter after the great conflagration. Our home supply was altogether inadequate for the constantly increasing demand; as yet none of our local growers had made a success of growing roses, and all of the men doing business drew their supply from the east, mainly Boston. Bon Silene became a standard first-class rose, which was known as the "Boston bud." Towards the spring of the year an occasional crop of Marechal Niel and Lamarque would make a sensation, and royal good Niels were grown too. Sulzer Bros. had a fine old plant covering the roof of one of their houses which was magnificent. Chas. Reissig also grew fine specimens. Carnations came into regular supply, though at first in limited quantities, in the early seventies; De Graw for white, and La Purite for color, were the leading varieties. Louis Morey of Oak Park and Miller & Hunt of Lake View were among the successful growers of this flower, which sold in the winter season at from 3 to 5 cents each; all short stems of course. Do you remember the times we had in obtaining a few dozen blooms with stems four or five inches long? If ever time was money that was when time must have counted heavily, for our friend Geo. Miller, who did the marketing for Miller & Hunt in those days, always made the plea when appealed to for a few long stemmed flowers, that it took too much time in picking. A man could go over the beds and snatch off the blooms without stem in much less time, and as for bunching them why that was altogether too rich.

Well, in those good old times the grower had no need of peddling his stock. The boys were up and around long before daybreak on a cold winter morning knocking the grower out of bed. If the grower would only let the retail boys have his flowers at his own price the latter were only too glad to assist in the picking. "But" says George on one occasion when we volunteered our assistance in picking carnations "you fellows are always after long stemmed flowers, now you be careful and don't pick any buds. You also want to look out where you see a new break of wood on the stem, it is possible that also might develop a bud."

In those days we were in the employ of Jas. Farrell, well, Jim had sent us with special instructions to bring fifty long-stemmed flowers. We hunted diligently all over the bed for the required number, but couldn't make it without sacrificing a few buds, so here goes, buds and all, for George has his back turned. Carefully removing the telltale buds we deposited them in our mouth for safe hiding when all of a sudden we are seized with a cough, just then George must needs look around and—well after that our friend kept his eye on us pretty closely and generally found time to gather the long stemmed flowers himself, if so disposed.

In 1874 Sticlow and Kuske came to Chicago from Boston, selecting Niles Center, which has since become noted as a cut flower producing center, for an establishment for growing roses and other cut flowers for the retail market. The venture was a success from the start. The roses grown by this firm, principally Bon Silenes, were fully as good as anything we ever saw imported from the east. The roses were grown in solid beds, as at that time the shallow benches had not been tried yet anywhere as far as we know. The success of this firm soon led many others to follow their example.

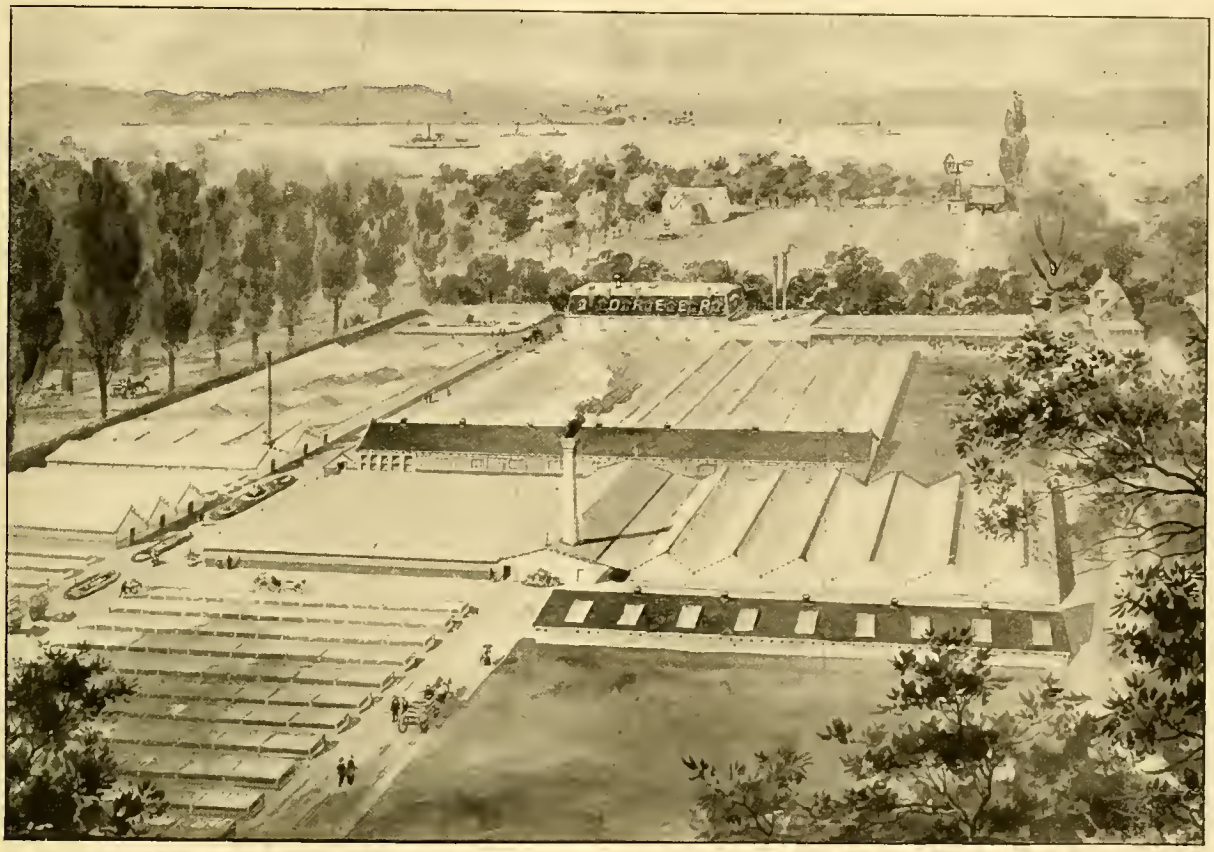
Gradually new varieties were introduced, at least some of them new to us, as for instance, Perle, Mermet, Cook and a little later Bride and La France. The first successful grower of these varieties excepting the two latter, which were not out at that time, was Mr. Roper, who managed the McCormick establishment at Lake Forest. This place started up in 1881 with the then new system of growing on benches in three and four inches of soil. This new experiment was soon followed by one establishment after the other, some returning to the solid bed again after a few years' trial.

But let us return again to the retail end of the trade. After the great fire of 1871 some of the very first to start up again were old "Doc" Farrell, (W. D.), who built a little brick shanty on the ruins near the southern limit of destruction on Wabash avenue near Harrison street, and Chas. Reissig, Wabash avenue and 16th street, Desmond and McCormick a little later, and Sam'l Muir on Congress street. About this time Jas. Farrell, who afterwards became well known in the trade, came here from New York. To him belongs the honor of introducing in this city the loose style of bouquet and basket, for at that period this style of arrangement was entirely unknown in our city. We, who entered the ranks of flower workers at about the same time, brought with us from Germany a conception of a bouquet that might have been acceptable to the flower patrons of the fatherland, but it was certainly not in harmony with the taste then developing, and we are free to admit that we are indebted for many valuable ideas to this artist in arrangement. So far as natural and graceful arrangement was concerned the late Jas. Farrell had probably no superior. The only fault sometimes observed would be a glaring defect in color harmony.

Speaking of loose arrangements many of us will remember Aug. Gutzloe, who started a store, we think, as early as '70 or '71 on West Madison street, where for a number of years he did a thriving business. Mr. Gutzloe had an inimitable way of his own of fashioning a bouquet, which to judge by his success appeared to be acceptable to his patrons. Well, Mr. Gutzloe called the loose arrangements a "hoosier" bouquet such as any blank fool could make "but look at this," he used to say, holding up a bunch with the grace of a Dutch cabbage, "there is work for you!" After a while Mr. Gutzloe determined to show the "hoosiers" downtown what he could do, so he rented a store in the Palmer House block on State street. We don't remember just how long he remained but long before his year's lease expired the unfeeling landlord, being unable to collect his rent, had his minions remove Mr. G.'s goods and chattels unceremoniously onto the sidewalk. But still the "hoosier" bouquet prospered.

Dick Watson was another well known character in the business. Dick was a fair maker-up and a first-class salesman. While in the employ of the late W. D. Allen, Dick did the best business in our city. His efforts and ability were largely instrumental in helping to develop the trade. Speaking of Watson we are always reminded of Alex. Burkhart, who, though not a florist but an artist in his own calling, that of wire designs, was so closely connected with our trade that he was always considered one of the craft. Watson and Burkhart were fast friends—generally—only Watson had to be careful touching Alex.'s ability as a workman. One day Mr. B. brought into Allen's store an intricate wire design which had been ordered by Watson and upon which Mr. B. had exercised his genius. But Dick couldn't see the fine points; there was something wrong here, and the wire not bent correctly there. "Let me show you how to fix the thing," suddenly yells Burkhart. Snatching up the wire design he threw it on the floor and jumped on it with both feet, then picking it up hurled it at the head of the astonished Watson. Well, yes, the wireworkers too were in those days more independent than to-day. For those were the glorious days of the gates ajar, the broken column, faith, hope and charity, and all the other designs for funeral purposes. It was a cold day indeed when the florists didn't have from three to a dozen funeral pieces, and the wire-maker was collecting his tribute in a way that would turn the wire artist of to-day green with envy. Then there are doing business to-day a number of the boys who were mere kids in those days, Joe Curran, Walter Kreitling, Phil Hauswirth and others all having made their mark since.

For many years the importation of stock from eastern points had to be kept up, in spite of the fact that great numbers of establishments sprang up on every hand and the older places added new houses continually. Not roses alone but almost every other variety of flowers were sent in. Prices? Well the boys in the east knew how to charge. At any rate the goods sent to Chicago were never billed at cut rates. But business was brisk and retail prices good so there was little complaining. Up to 1882, the grower did his own marketing, which had its good as well as its bad side. One of the good points being that prices then were never subject to sudden fluctuations. Prices would gradually rise in the fall, reaching high water mark in mid-winter and then as gradually downward again. One of the bad features on the other hand was the great difficulty for the dealer in obtaining certain kinds or large numbers of the same from the grower he was dealing with. Times became right for a change and the commission man made his appearance, J. C. Vaughan being the first to embark in this enterprise in 1882, in connection with florists' supplies, etc. This firm rapidly developed a considerable shipping trade, home demand being a secondary consideration. Two years later Kennicott Bros. opened a little two by four joint at 24 Washington street in the basement. Our genial Flint managed affairs in such a way that the business soon outgrew its very limited quarters. This concern was in fact the first commission house pure and simple, depending on a commission on sales for a living. At first this house entered exclusively to the local market but gradually working up a fine shipping trade as well. And now at the present day we have nine regular commission firms and one large wholesale house selling its own produce, who handle the product of hundreds of growers aggregating last year the sum of half a million dollars. Much has been said against the commission house feature, but one thing is certain that these commission houses



VIEW OF THE GREENHOUSES OF H. A. DREER AT RIVERTON, N. J.

have done a great deal in developing the flower business. If they had never been in existence there is no question but what the business would have kept on growing, but the rapidity with which we have advanced is largely owing to them.

Abuses may have crept into the management with more or less detrimental effect on the business, as for instance, the abnormal advance in prices at the holidays. But these objectionable features can be and should be eradicated. Already the commission dealer has found out that extreme high prices on special occasions are hurtful to the trade. So this matter is being rapidly adjusted to the satisfaction of grower, dealer and middleman. Then there is the fakir, also the outgrowth of the wholesale system. How to deal with him is a question for the future to decide. Less than two years ago the Chicago Cut Flower Exchange was started with the hope that it would do away with all the objectionable practices of the commission business. Naturally the projectors of this new enterprise expected the loyal support of the growers as undoubtedly the advantages to be gained by them were larger than those of the other interests. But how lamentable the failure is a matter of very recent history, the very growers who were loudest in their complaints against the commission dealer, calling him a thief and a cut-throat, proved the very ones to hold back, expecting his brother grower to draw the chestnuts out of the fire. If the undertaking had proved a success they were ready to tumble into the band wagon, but now, "well I told you so." Other cities have made these exchanges a grand success, why not Chicago? There is apparently too much narrow minded selfishness and jealousy in our ranks and until this is shaken off there is small hope for unity of action.

As an outgrowth of the times which points to combination of kindred interests in every direction there is now a movement on foot for the purpose of organizing the commission and wholesale interests. We think this move a wise one but no permanent good can result from it unless the other two divisions also organize for a similar purpose. Let the retail men form a union, not for the purpose of antagonizing either the wholesale interest nor the grower, but in order to enable them to take a firm stand against certain abuses wherever they exist, the correction of which can be accomplished only by united action. The growers of cut flowers should do the same. With all three divisions thoroughly organized all matters of grievance could readily be adjusted by a joint board of arbitration. Some such move seems necessary, particularly at times when trade is so often and frequently needlessly disturbed by conflicting interests. But this subject is in our estimation of such vast importance that it deserves a broad and full discussion.

We have already trespassed on your patience to such an extent that it seems an imposition to ask your indulgence for a few minutes longer, but we cannot refrain from touching upon another point which is of the very greatest importance to horticultural and floricultural interests, and that is the necessity of a horticultural hall for holding exhibitions as well as providing a comfortable and proper home for our Horticultural Society, the Florist Club and all kindred interests. The time is right for such a move. Mr. G. L. Grant in his address before the Club at our last meeting strikes the keynote when he says: "We all love our city and wish to see it beautiful and healthful. Let us take steps towards the creation of a commission which shall have power to plant and maintain shade trees on every street possible. The city of Washington has already done this and as a result Washington is famous the world over for its beautiful trees. We can do the same here. To be sure it will take work to carry such a measure through our city council, and still more work to insure the appointment of proper men on the commission, but it can be done. We would surely have the active support of the daily press and by persistent effort all obstacles could certainly be overcome."

Just now seems a most opportune time for accomplishing the desired result since the often debated plan of converting the unsightly Lake Front into a beautiful park is again brought to the front. One of our ablest aldermen, Mr. Madden, has already submitted a plan for such a park, "Madden's mad dream" some people call it. A dream it may appear though a beautiful one, but mad it is not. It is simply a question of time before it will become a reality. But can we, as an organized body of horticulturists stand idly by without an attempt to further the best interests of such a move? And furthermore, here is our very chance. Before a permanent plan is adopted the horticultural hall should be made part of it. Don't let us wait until the matter has assumed permanent shape and plans are approved when difficulties might be en-

countered as to its location. If energetically pushed *now*, we think that our chances of obtaining the desired site for the building are very good. Of course the necessary funds for the building must be provided. On this score too we should have no difficulty. There are plenty of public spirited men of means in our city who take an interest in horticultural matters and would be willing to subscribe liberally for such a cause. In connection with the hall, suitable conservatories might be built by the park commission. But all these points should be thoroughly discussed in the near future and then as soon as the line for action has been determined let us all work heart and soul together according to the old maxim "In union there is strength."

A Holland Bulb Farm.

We present herewith a view on the bulb farms of Messrs. Segers Bros., Lisse, Haarlem, Holland. As will be noted the fields are intersected by numerous canals which are used not only for irrigating but for conveying by boat manure to the grounds and the bulbs to the dry houses, etc. The soil in which the bulbs are grown is almost pure sand, and all the work of cultivation is done by hand. We are told that the water in the canals is kept always at a level just two feet below that of the field, and that by this means the soil in the field is maintained at an exact degree of moisture all through the season. Also that owing to this system, even in the middle of the summer lettuce or cabbage may be planted in the fields without failures.



Our Telephone.

Hello, there; is that Wood's Hole, Mass?

No, sir; ring off.

Why, who are you, anyhow?

This is Wood's Holl; not Hole.

Well, the Post Office department says it's Hole.

What of it. We call it Holl down here; Holl's right.

Very well. Please call Mr. Walsh to the telephone.

Oh! the man that grows those handsome roses. Line connected. There he is.

Hello, is that you, Mr. Walsh?

Yes, what's wanted?

This is the AMERICAN FLORIST. We see by the account of the Boston rose show that you have been capturing the prizes up there again. Cannot you tell us how you manage it.

Oh, there's no great secret in it. We just take good care of them, that's all. When your growers want to force roses indoors successfully they see that the plants are fed when they need nutriment and watered when they need moisture. The same attention given to outdoor roses will result in the same success.

Supposing you give us the names of a few of the varieties which in your experience have proved the most satisfactory.

Well, I have just been admiring a plant of Her Majesty which has thrown from two branches twenty-three grand blooms and this notwithstanding it suffered severely from that sudden freeze we had last April. This rose has been frequently condemned on account of the supposed difficulty in growing and blooming it. My plan is to bend the canes over and tie them down, and it gives me a flower from every joint. I think that growers make a great mistake in pruning this rose. Take the tip off, if you please, but that's all.

I wish you could see my Brunners, there are over forty blooms on a plant in many cases. If only this rose was a little more double and did not show the center so soon; like its progeny, Columbia, for instance. A cross between these two ought to be a good one. By the way, I wish some one would tell me why Brunner come striped and mottled at times.

I have noticed in the Boston shows that they don't get the substance in their Luizets that they should. This rose comes very fine here. The plants are a perfect sheet of bloom, averaging from thirty-five to fifty flowers each.

What are your observations on the newer roses?

Among recent introductions one of the best is Margaret Dickson. It has proved all that was claimed for it. Marchioness of Londonderry is a new one of '92 similar in color to Margaret Dickson, and a very good rose. It is more double than Margaret Dickson. I don't know that it is any improvement on that variety though, so far as I can judge by its first season of flowering.

Spenser, introduced in '92, I would call an improved Baroness Rothschild, the foliage is well up under the flower and the color as good as in Baroness, but the flower is as double as Merveille de Lyon which is a strong point in its favor. Gustave Piganeau is a remarkably fine flower. Although the plant is a very small grower the bloom is of the largest size. The whole strength of the plant seems to go into the flower. Captain Haywood I don't think is as good as Piganeau. It is not double enough to please me.

Charles Gater is a new one of '93. It is a great grower. The flower is of a very distinct shade of crimson, has a good make-up and is of immense size. Lady Helen Stewart is another beautifully finished bloom. It is one of the very best exhibition roses we have, I think.

Paul's Early Blush is a rose of most symmetrical form, beautifully colored and free flowering. Earl of Dufferin is of grand color and form but fades early. Marchioness of Dufferin is perfect in form and very prolific. In Sultan of Zanzibar we have a fine dark rose. It attracted great attention at the show.

Margaret Boudet, introduced eight years ago from France is a rose I think very well of. It is an exceedingly floriferous variety, a pleasing pale pink in color, but not as hardy as I would like. A singular fact in connection with this rose is that it has never, so far as I know, been offered in a catalogue since its first year.

A rose but little grown as yet in this country is Victor Hugo, although it is ten years since its introduction. It is one of the brightest colored roses we have, almost scarlet, finer than Lord Macauley in this respect although not quite so double and lacking the great substance of that variety. Gloire de Margottin and Mrs. Harkness, both comparatively new, are beautiful in color and form. Rodocanachi is particularly brilliant and is already becoming a general favorite.

Many of the old varieties are still worthy to stand at the very top of the list. Merveille de Lyon, Baron de Bonstettin, Prince Arthur, Thos. Mills, Mons. E. Y. Teas, Marie Baumann, Pere Notting, Fisher Holmes, Mme. Marie Finger, A. K. Williams, Prince de Portia, Alfred, Duke of Teck and Marquise de Castellane are all grand old sorts and indispensable as exhibition roses. I have a specimen of Marquise de Castellane with twenty flowers on two stems, and all good exhibition blooms too. Duke of Teck is a rose of great substance and nothing can compete with its magnificent glowing red. It would be a good color to fertilize from.

Mme. Annie Wood, although one of the most perfectly formed roses that we have, very free, with superb color and of great substance, is for some reason or other not much grown. Another rose that deserves to be grown much more extensively than it is, is Mlle. Marie Rady. It is very similar to Alfred Colomb only a little more vermilion when first opened. It is of grand make-up and holds its form even when fully expanded. Horace Vernet is another variety we do not see much of. Though not always reliable, nevertheless it has many times carried the challenge cup for exhibition blooms in London and Paris.

Do you do much with roses outside, other than the hybrid remontants?

Yes, most of the teas and hybrid teas do well. Mme. Caroline Testout is an exceedingly strong grower and has proved entirely hardy here. Plants imported in December and set out immediately stood the winter all right. Lady Henry Grosvenor, a new hybrid tea of 1892 with color similar to Souvenir de Malmaison seems to be a good free flowering variety.

Of the older sorts Mme. Hippolyte Jamain, Reine Maria Henriette and Captain Christy are very valuable. Capt. Christy in some seasons is apt to come quartered, but this year it has been very perfect. And Gloire de Dijon I regard as one of the most satisfactory roses we have. We cut more blooms from it than from any other variety.

By the way, there is a new Moss of '93, Zenobia, that is most promising. It resembles Luizet in form and color, with color a trifle deeper; and Paul's Crimson Globe, another introduction of '93 is undoubtedly the largest and best of all the Moss roses. Mrs. Paul, Bourbon, the Gold Medal rose of 1891, is a beautiful soft blush, not so large as some but perfect in form and most satisfactory.

We understand that your seedling, Michael H. Walsh, created quite a sensation at the Boston exhibition. Are you doing much now in the line of hybridizing?

Not a great deal; my facilities for such work are not of the best. I have a good cross from Marquise de Castellane fertilized by Mme. Gabriel Luizet. The color is unique, shading from the b illiant Castellane tint in the center to almost white at the tips of the petals when fully expanded. Another one is a cross between Brunner and Prince Camille de Rohan. It is quite double, very fragrant and considerably darker in shade than Brunner. From Margaret Dickson fertilized with Mme. Hoste I have got a fine pure white variety, full double, with habit and free flowering qualities of Hoste and the vigor and foliage of Dickson. Those are all I can mention specially at present. There are others but we have got to wait another year for them yet.

Do you protect your roses much in winter?

A mulching of straw litter or pine needles; that is all.

How do you dispose of the rose chafers?



VIEW ON ONE OF SEGERS BROS'. BULB FARMS, LISSE, HOLLAND.

We do nothing except to hand pick them. Have tried hellebore but it doesn't have any effect. Paris green I am afraid to use.

Roses in Summer.

During the hot spell roses require a good deal of attention to keep them moving in good shape to get a good strong growth for winter. In this part of the country the replanting is about finished; in the west according to my own observation, they are much later than in the east, where early planting is the rule, for experience has taught us that if we do not get a good growth on the plants by November we can not get good paying crops by the holidays. One reason is that we do not get near as much bright growing weather in the fall as we used to, therefore we must take advantage of the summer to get the growth.

When the house is planted shade with white wash, give all the air possible, and do not let it dry up too much. Syringe twice a day, and keep the house moist by damping the walks down. Do not get the soil in the benches too wet, and especially in damp humid weather look out for the soil and do not let it become wet enough to get covered with scum or moss. At times now we get cool nights; do not leave all the air on, but reduce it in proportion to the fall of temperature, for it is just as easy to get an attack of mildew now as it is in the fall. When you see a speck of mildew kill it by an application of sulphur or fostite; both are sure cures, but I prefer the latter, as it is much more economical.

In muggy weather at this time of year you are apt to get an attack of green fly, but close up the house after sundown and fumigate it, opening the house two or three hours afterwards, and you will do the plants no harm. However, unless it is exceptionally cool, it is apt to injure the plants if the house is left closed all night.

Where old plants are carried over it is as well to begin to let up on the water now, so as to dry off to some extent before pruning, but it is not advisable to prune yet, or the plants being denuded of foliage to some extent by the cutting back are apt to suffer from the sun striking on the unprotected wood. While I am not an advocate of carrying roses over, still in some cases it is necessary to do so, or where the plants are grown in solid beds, as seems to be done in the west to a great extent, I do not myself believe that it pays to grow roses the second season; work them for all they are worth, and you will find when they are grown on a bench their strength and all the substance in the soil is exhausted in one season.

For summer blooming there is no white rose that can beat Kaiserin Augusta Victoria whether carried over or planted early. I saw a house of this rose that had been planted early in the present spring by L. L. May & Co., St. Paul, Minn., and at the time I saw it (June 2) was a picture of health and vigor, just beginning to come into bloom; the flowers were large and foliage perfect. It was just the house a rose grower likes to see, and unless signs fail will cut heavily all summer.

Perle des Jardins is as we all know a first-class summer rose; in fact I think it is much more useful in summer than in winter. La France is the best pink rose we have for summer; two year plants of it doing best. Mermet and Bridesmaid come too small to be of much value in hot weather. Niphetos, if shaded, do well in summer although the flowers are soft. American Belle is very good at this season if planted early; what it would do if carried over I cannot say, as I have never seen a house of it the second season. Last season I saw it in summer at J. Burton's, Philadelphia, and the flowers were fine and of good substauce; I was much impressed by its value as an all the year around rose then. In the vicinity of New York Beauty is not much thought of for summer or early fall, but W. Scott grows it for this season by planting early, and grows it well too; if it did not pay for the treatment and that well W. S. would not try the experiment twice.

Do not let your young roses flower now; keep the buds pinched off, and let the plants gain strength before allowing them to bloom. Those planted in May should not be allowed to develop flowers before the first week in September; that is up to that time keep the buds pinched off. As soon as the plants are large enough stake and tie, and be sure to keep the surface of the soil free from weeds and moss. Give it a rubbing over or stirring with the fingers at least once a week. If your soil is very light or the plants growing very rapidly it is a good plan to put on a very light mulch of well decayed manure, not so much as a stimulant as a preventive of evaporation, and to keep the soil cooler at the roots, but this is not often necessary.

JAS. S. TAPLIN.

Hackensack, N. J.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.



Chrysanthemum Notes.

The plants are now beginning to make a strong growth and should be closely looked after every day. They will probably need watering every bright morning, and during such torrid weather as we in the vicinity of Boston are now afflicted with, will require a syringing during the day. Take advantage of any cloudy day to weed the beds thoroughly and if the soil has become sour in any spots, or shows any fungous growth, stir the top a little and let the air in to sweeten it, and if very sour sprinkle a little charcoal dust over the bench.

The next thing that will require attention is the staking and tying up, and this is done in almost as many different ways as there are growers, some using sticks, others wires, and others cord. If the plants are grown to single stem and flower the best way to tie them up is to place a stick or large wire to each plant, but if there is only four inches of soil in the bench the stick will need to be fastened at the top or before the season is half finished the weight of the plant will swing the stick to one side or the other and then the plants will grow crooked. Where a stick is used to each plant the best way that we know of is to adopt the system now in vogue by most of the rose growers, that is to run a wire (size 18) the length of the bench, drawn as taut as possible nearly as high above the beach as the sticks are long and tie the sticks to it. If it is more convenient to run the wires across the bench a stick can be fastened to each side of the bench at the end of the rows and a wire run from one stick to the other and the intervening sticks fastened to it in the same manner as the others.

If the plants are grown to two or more blooms it is not so easy to have a stick to each shoot as in the single stem system and we think they are much easier tied up to strings in much the same manner as smilax or asparagus is grown. The top wire may be arranged in the way as described above, where sticks are used, but if the taller growing varieties were planted at one end of the house raise the wire at that end so that it will be about six inches below the average height of the tallest variety. This can be easily arranged if the rows run across the benches and we prefer this way. We fasten a strong stick to each side of the bench on the inside of the board by a staple three inches each side of the row of plants and run the wire across the top of the sticks. The wire at the bottom should be strung at least eight or ten inches above the bench, this gives plenty of room to reach in and do what weeding may be necessary and to put on a little top dressing later if it may be desirable. We believe this way to be far preferable to two rows of sticks for it gives the grower a great deal more room to get at the roots of the plants.

Be sure and make a good examination of all the plants every day, if possible make it a part of your system to go through the houses every day about such a time and carefully look into anything that may be out of the way. As the plants grow, if by mistake any plant has got set out in the patch of any other variety, it will be easily discovered, and put a tag down beside of it now, and make a note of it, and when it blooms either pull it out or write the correct name on the tag. If by an accident a plant or shoot should be broken or become stopped in any other way tie a tag to it and write a number on it and if you are going to keep a book put it down, for it may produce the best bloom in the house and many of us have found out how to grow many a plant better than we knew before by accident. These things may at first sight appear to amount to but little, but when you come to compete against a number of good growers, an extra fine bloom of any variety will often carry the prize to the competitor exhibiting it.

W. Newton, Mass. ELIJAH A. WOOD.

Chrysanthemum Judging in America.

Under the above heading the English *Gardeners' Magazine* publishes the following:

Although we sometimes hear complaints of judging in England, we doubt very much whether anything so severe has ever been said of English judges as a correspondent, an American, writes about his countrymen who act in that capacity, and it is to be hoped with some degree of exaggeration. He says, "Mr. ——, who grows practically no chrysanthemums, and until the last year or two hardly saw them, poses as a judge, &c. Of such stuff are all our committees and judges constituted. Fifty per cent. hardly knowing one name from another and never judging blooms by merit or points, simply size and stiff necks, that is all they can see. Sad to say shows in this country have fallen into the control of what we call market or cut flower growers, a class you do not have, who look with but one object in view, what can they get out of it, will it do for market growing, and anything that is not a clear yellow, white, or pink has a hard show for existence." He concludes by adding that the judging is in the hands of those who are almost wholly in the trade and know but few varieties. Fifty per cent. of the judges, says this writer, should be shoveling coal instead of setting themselves up as florists. We can only hope for the credit of the chrysanthemum, that the other half are high-minded, impartial conscientious men whose influence will act as a counterpoise to the coalheavers.

[It would be interesting to learn from our esteemed coadjutor's correspondent why these incompetent men are selected by the committees of the various societies to act as judges. We apprehend they do not appoint themselves.—ED.]

We have often heard the wild braying of disappointed exhibitors but we did not before realize how long were the ears possessed by the arch-sorehead of them all. The mouthings of this contemptible fellow would be beneath notice had he not secured publicity for his ill-natured resentment in a foreign press whose readers are not in a position to judge of the animus of his attack.

Our judges may not all reach the high standard that is to be desired but we affirm without fear of contradiction by anyone except C. H. P's correspondent that all are "High-minded, impartial, conscientious men," and further that there are none who do not have a better knowledge of chrysanthemums than the writer of the libellous screed noted. Most assuredly the "Judges do not appoint themselves," which accounts for the fact that C. H. P.'s correspondent has not been called upon to act. The "Committees of the various societies" seek men who meet C. H. P.'s description—and get them.

DO YOU WANT a complete alphabetical list of chrysanthemums in commerce in America, with class, and brief, accurate description of each? You will find such a list in our trade directory and reference book for 1894. Price $2.00.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

Carnations are over now with most growers and it is well to commence getting the houses into shape for next winter's planting. They should be cleaned out thoroughly and then fumigated well with sulphur to clean them of all fungoid growth. If you intend changing the soil do it now and when you have it all out give all wood work inside the house a coat of lime. There is nothing so good as lime for sweetening up a house and it is at the same time a good wood preservative. If the houses need paint do not put it off until next season but give it to them now. Attending to such items at the proper time means a longer life for the houses.

I do not find it any advantage to change the soil in my houses oftener than once in about three years, but this will not apply everywhere nor with every soil. When we do change we do it about this time and when the soil is all in we give it a coat of manure mixing it in thoroughly and then water it well so as to get the weeds to start, afterwards permitting it to get perfectly dry, killing the weeds and sweetening the soil again.

If you have some old rose soil, that is about as good as anything you can use. If you do not happen to have any prepared soil, take a good garden loam and add manure enough to it to bring it up to the standard. Not growing anything but carnations myself I find this latter method to be a considerable saving in time and expense over preparing a soil, and to be quite as good in every respect. The manure used should be well rotted and about two years old, having been handled once or twice during that time so as to be available for plant food at once.

In changing soil on benches they should be thoroughly cleaned off and given a coat of lime before putting in fresh soil. Some growers take only a few inches off the top and add fresh soil to that extent but it pays to clean them out clean when you do change. On solid beds taking four to five inches off the top is all that is necessary, although six inches will not hurt the plants any. If you are not changing the soil it pays to keep the houses clean during the summer months as well as in the winter. See that no weeds are allowed to ripen seed to annoy you when the house is planted. Give the beds and benches their coat of manure and mix it thoroughly with the soil so as to be ready to plant whenever you want to start in. Doing this now will give the weed seeds in the manure a chance to germinate and they are more easily destroyed while the beds are empty. Use the oldest and best rotted manure you can get and don't use it too sparingly, especially on the benches.

ALBERT M. HERR.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

Gastropods in Piqua.

I am in receipt of a clipping from a newspaper published in Piqua, O., giving an account of a meeting of the city council which reads as follows:

A TERRIBLE NUISANCE.

For two years the residents on North Broadway in the vicinity of the two greenhouses, located on that street, have been troubled with large snails which it is claimed come from the greenhouse. These snails have become so numerous that the people are desirous that something shall be done that will abate this nuisance, in order that they may be kept out of their wells and from getting in their houses. Dr. W. J. Prince the City Health officer was present and stated that this complaint had been discussed by the Board of Health, who had come to the conclusion that the best way to abate the nuisance was to order the greenhouses removed outside of the city limits. To do this would require the action of the City Council and the Health Officer requested that a committee be appointed to act in conjunction with a committee from the Board of Health whose duty it should be to take the proper steps to have the greenhouses removed outside of the city limits.

A local florist, Mrs. H. P. Smith, is the victim whom these wise city fathers and enlightened health officer are about to evict because her greenhouses have been the cause of a visitation of snails. Mrs. Smith asks the following questions:

"Have you ever known of a greenhouse being moved on account of snails?" "And can they be moved?" "If the greenhouses were moved outside the corporation (the snails are now in the cellars, yards, etc., of the neighbors) would the snails be likely to disappear in course of time?" "Are snails known to live out of doors through the winter, that is in a rubbish pile or under a board?" "Would like to hear other florists' opinion in regard to the so called snail question?"

The above are the chief questions asked. It it were not that it appears a serious question to Mrs. Smith, the whole thing is so preposterous and ludicrous that I think the proper authorities to deal with the question would be *Puck* or Mark Twain. The Mollusc which is destroying the city of Piqua is called by Mrs. Smith and the City Council snails. Are they what are popularly known as snails or are they what are usually called slugs? The latter are much commoner in this country than snails. I am not going to write a treatise on this widely distributed family, but will say that in some countries, Scotland for one, there is no distinction made between snails and slugs, and the latter word is absent from the vernacular vocabulary of that country. Snails have large conspicuous spiral shells in which they can retreat and remain living a long time, even two or three years. The term slugs is applied to those whose body is naked, the shell being merely rudimentary and concealed. Members of this family are found in all parts of the globe, the family Helicidæ alone having upwards of 1200 species. Some are aquatic and some only amphibious, some breathe air and some don't, some carry a comfortable house on their back, while possibly through the carelessness of their remote ancestors others have to go without that useful appendage. It matters not whether they are of one genus or another, there is no evidence, or any attempt at evidence, that a single species is poisonous or of the slightest harm to man or beast, except that they feed on the tender morsels of the garden. One species, Helix pouratia, is known as the "edible snail" and is commonly eaten in France and Italy, as well as other species. There is no doubt that they can survive our winters and are found most common in localities where they can shelter only under the fallen leaves.

About the legal question: It is too absurd to seriously enter into. The greenhouses have neither generated nor harbored the snails. They might as well ask for the removal of the houses because greenfly has been troubling the roses of the town or that the odor of Lilium auratum coming from the greenhouses is too strong for some invalid neighbors. Small slugs are very fond of adiantums and several other of our greenhouse plants and we have to fight them, but there is nothing in the greenhouse that the larger species are fond of and they are rarely seen. Just let these councilmen make a move to have the greenhouses removed and Mrs. S. could soon show what a set of ignoramuses they are. And she could prove by the evidence of hundreds of intelligent men that a greenhouse was no more conducive to the welfare of snails than is a church. Not only would it be impossible for the city to remove the houses for any such alleged nuisance but Mrs. Smith would be justified in claiming damages from the city for injury to her business from such idle and unwarrantable talk. Many people might be afraid to buy a geranium from Mrs. S. for fear of catching the snail disease.

But just fancy living in a city in the great state of Ohio in this age where the health physician and the board of health discuss and then decide that the best way to "abate the snail nuisance" is to order the greenhouses removed. It is a relic of barbarism antedating the dark ages. The councilmen and health physician ought to be inoculated with Cyclostomidæ Ampullariidæ.

WM. SCOTT.



PROF. L. O. HOWARD.
Government Entomologist.

Prof. L. O. Howard.

We present herewith a portrait of Prof. L. O. Howard, the new Chief of the Division of Entomology of the U. S. Dept. of Agriculture, Washington, D. C.

Prof. Howard was for sixteen years first assistant to Prof. C. V. Riley, who recently resigned the position of chief of the division, and he is therefore in close touch with the practical work in hand, and will assuredly carry it out on the same broad lines that have been followed in the past.

It is gratifying to note that faithful work has been rewarded by deserved promotion and that the voice of the departing chief was heeded by the powers that be in naming his successor.

The Division of Entomology is to the horticulturist as well as the agriculturist one of the most important of the branches of the U. S. Department of Agriculture, and the government can do no greater service to those two great industries than by furnishing every facility to specialists to carry on their work of ascertaining by experiment the best means of combatting the insect pests that are increasing in number and variety with such alarming rapidity.

Furious Hail Storm at Newport, R. I.

The great storm of July 14, was the most destructive ever experienced here, and the desolation and confusion it created during its few minutes duration will not soon be forgotten. The streets are littered with leaves and branches and the hapless greenhouse men are busy raking up the shattered remnants of their roofs. The track of the storm was not more than a mile and a half wide but it carried destruction to every glass house in its course and most unfortunately its path was right through the section where are located those who could least afford to bear the loss, the hard working florists and market gardeners, with whose growing crops and greenhouses it wrought cruel havoc, while the conservatories of the wealthy residents escaped with the most trifling damage.

The hail stones were of enormous size, flattened and shaped somewhat like a tomato and came down with such force as to bury themselves in the earth, board surfaces being deeply dented and tin roofs cut clear through in some places.

Carl Jurgens was the largest loser. Both his establishments were completely riddled, there being practically no glass left on 21 houses covering 60,000 feet of ground. Roses in splendid condition, which he depended upon for summer cutting are smashed down, and mildew from Newports' foggy atmosphere will complete their ruin. Mr. Jurgens estimates the value of glass destroyed at from $6,000 to $8,000, but the loss on the plants and loss of labor will add several thousands to this estimate.

Another heavy sufferer is William Findlay, and much sympathy is expressed for him. Three plant houses and eight fruit houses is the extent of his establishment. Bruised peaches and nectarines are thickly strewn among the broken glass, and five crops of grapes are badly damaged with little hopes of escape from the dreaded mildew. Outside hydrangeas and other show plants are cut to pieces and two large melon patches are ruined. Mr. Findlay's loss, including prospective profits from fruit crop, will amount to $6,000 or $7,000.

Aaron Brandt, with eight houses, loses about 90% of his glass and estimates his loss, including grapes, at several thousand dollars.

Gibson Brothers' 9 houses were built of the finest double thick glass but they fared little better, not more than one-fifth escaping. Their loss will be several thousands.

Henry J. Haas suffered a damage of nearly one thousand dollars.

K. Phelen's 4 houses were completely ruined.

G. H. Riggs lost about 10,000 lights of small glass, M. Butler & Son 15,000 lights and J. M. Hodgson, John Allan,

Thomas Galvin and the Newport Nursery Company escaped with less damage.

The only private places that met any serious loss were H. G. Marquand, Geo. Harman, James Gordon Bennett, E. J. Berwiad and Mrs. Paran Stevens.

The storm after leaving Newport passed over Middletown where Wayland Smith and other market gardeners' got a taste of its fury.

Newport will be a gold mine for the glass men for some time to come. Not one of the parties injured had any hail insurance. They had no idea it would ever come their way.

Coming Exhibitions.

ATLANTIC CITY, N. J.—Trade exhibition Society of American Florists. G. C. Watson, Sup't of exhibition. 1025 Arch St., Philadelphia, Pa.

BOSTON, Sept. 5-6. Annual exhibition of plants and flowers Mass. Hort. Society.

CHICAGO, Nov. 3-9. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.

NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex MacLellan, Sec'y, Ruggles Ave.

BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.

PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.

ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.

INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.

PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L.B. 375, So. Denver, Colo.

PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.

MONTREAL, Nov. 12-14. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.

WORCESTER, MASS., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.

TORONTO, ONT., Nov. ——. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.

SPRINGFIELD, MASS., Nov. ——. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 John St.

MILWAUKEE, WIS., Nov. ——. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.

HAMILTON, ONT., Nov. ——. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.

[Secretaries will confer a favor by supplying dates as soon as decided upon. We shall be glad to know of any further shows decided upon and not included in our list, even if exact date is not yet determined.]

Hardy Flowers for August.

The month of August brings us to the last of the flowering trees of small stature. Yet few as they are they would, if gathered into a small garden, command a good deal of surprise and attention, while when distributed over miles of territory they are lost in the prevailing ocean of green.

The trees are chiefly Aralia chinensis vars., Clerodendron trichotomum., Kœlreuteria paniculata, Oxydendron arboreum, Rhus semialata vars., Sophora Japonica vars, The sorrel tree (Oxydendron) flowers in July southwards, where it becomes very beautiful in flower, seed and folinge.

There are still a good number of flowering shrubs, some of which are repeated from my midsummer list, and will be repeated again in September, either because they are enduring in their periods of bloom; or that they continue ornamental from their seed pods, and fruits. The shrubby plants peculiar to this month are well worth massing together for special effects, as are those of any season. The habits of our people render these special effects desirable at the summer resorts. There can be no doubt but very striking effects can be had by these seasonal displays, although they have received but scant attention. To be sure we begin to see what the tulip and rhododendron can do—and perhaps the rose—but beyond them we have nothing of the kind which gave to Cliveden (Mr. Astor's English home) its world wide reputation for its seasonal displays. It is perfectly feasible to plant for an exhibition which will endure a month, or two, and still leave the beds to be filled with bedding plants or annuals. Such shrubs as the following if tastefully grouped are capable of rich effects.

Althæa syriacus varieties.
Buddleia Lindleyana.
Calluna vulgaris.
Clethra acuminata, C. alnifolia, C. barbinensis.
Callicarpa purpurea.
Clematis crispa, C. Davidiana, C. flamula, C. paniculata, viticella, etc.
Clerodendron viscosum (S.).
Desmodium pendulilorum.
Dabœcia polifolia.
Daphne Cneorum.
Erica vagans.
Euonymus Sieboldianus.
Gordonia pubescens (S.).
Hydrangea hortensis (S.). H. paniculata varieties.
Hypericum hircinum, H. multiflorum, H. prolificum, H. densiflorum, H. galioides, H. Moserianum, H. calycinum, H. patulum, H. aureum.
Hibiscus roseus, H. malva-alcea, etc., are technically herbs, but assume the character of good sized shrubs when given room on a lawn.
Indigofera Dosua, usually dies to the ground in this climate.
Kerria japonica is often very showy in late August.
Lespedeza bicolor (S.).
Leycesteria formosa (S.).
Lagerstrœmia indica (S.).
Lonicera Halleana.
Polygonum cuspidatum, P. Sachalinease.
Potentilla fruticosa.
Rubus odoratus.
Rhodotypos kerrioides.
Rhus copallina.
Rosa Wichuraiana, rugosa vars., and such hybrids as Mrs. John Laing, Dinsmore, Clothilde Soupert, etc. etc., and I would like to direct attention to the fact that R. lævigata is hardy on walls as far north as Trenton.
Spiræa Douglassii, S. salicifolia, S. tomentosa and the varieties of S. Bumalda, if pruned after the spring flowering.
Tamarix chinensis.
Tecoma radicans, T. grandiflora.
Vitex agnus-castus, V. incisa (S.).
Periploca græca (the silk vine) also flowers during August, but is scarcely showy.

The most brilliant displays are to be had however, from the herbaceous plants. In many cases these are not surpassed by any plants anywhere.

Acanthus latifolius.
Achilleas.
Aconitum Napellus vars., A. lycotonum, A. uncinatum.
Alliums.
Artemisia Stelleriana.
Aster Amellus Bessarabicus, A. spectabilis, A. longifolius, A. formosus, etc.
Ansonia salicifolia.
Bocconia cordata.
Bessera elegans.
Cassia Marylandica.
Catananche cœrulea, etc.
Campanula Mariesii, C. carpathica, etc.
Callinhoe involucrata.
Cimicifuga racemosa.
Coreopsis tripteris.
Crinum Powellii (S.).
Begonia discolor (S.).
Delphinium formosum, D. sinense, D. nudicaule.
Echinacea purpurea, E. angustifolia.
Eryngium giganteum, E. amethystinum, etc.
Euphorbia Myrsinites.
Eupatoreum ageratoides, E. cælestinum, E. perfoliatum.
Funkia purpurea, etc.
Gaillardias.
Galtonia candicans.
Gentiana Andrewsii varieties.
Gypsophylas.
Helenium autumnale, H. multiflorus.
Heuchera sanguinea.
Hibiscus militaris, H. moscheutos.
Helianthus species and varieties.
Hemerocallis Thunbergii.
Ipomœa leptophylla (S.).
Liatris pycnostachya.
Linum species.
Lilium Henryii, L. Brownii (S.), L. speciosum varieties, L. sulphureum, L. tigrinum varieties.
Lythrum superbum.
Lobelia cardinalis.
Mimulus cardinalis.
Malvas.
Milla biflora.
Rhexia virginaica.
Œnotheras.
Rudbeckias.
Ruellia ciliosa.
Sedum Sieboldii, S. spectabile, S. Telephium varieties.
Statice latifolia.
Tricyrtis hirta.
Vernonia Nova-boracensis.
Veronica longifolia sub-sessilis.

Besides these are the innumerable varieties of Phlox paniculata, pentstemon, salvia, the various aquatics and zephyanthes, gladiolus, and other bulbs, which at the north are neither regarded as hardy or herbaceous.

Trenton, N. J. JAMES MACPHERSON.

Philadelphia.

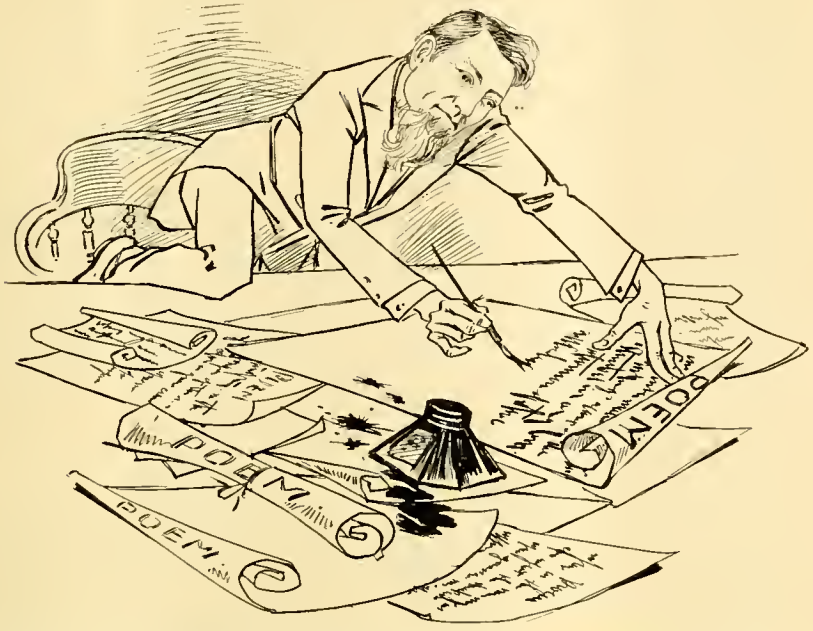
We have heard of various plans for shading greenhouses, but this one is something a little out of the common and is not likely to be generally adopted. A certain grower in this vicinity having a lot of roses planted and wanting to shade the house in a hurry could find nothing better for the purpose than a little flour. Sending his man ahead of him with a hose to wet the glass he followed scattering the flour over the wet surface. It was easy to get it on, but oh my, what a job to get it off! A little whiting is now always on hand.

Atkinson & Son of Edgewater are now cutting asters, the first we have seen from houses planted for summer cutting; $1 per hundred is asked for the flowers.

Carnations are still plentiful but the crops are falling off. Kaiserin, La France and Testout are looming up.

Thomas Foulds, of Gynedd, is carrying some really fine Mermets. They would have passed last winter. Mr. Foulds has had great success the past season with both Mermet and Bride and intends to leave the plants, which look very fine, in for another year. He says he has no particular method of treating them but thinks his soil is such that he can give water more freely than most Philadelphia growers.

Sweet peas are plentiful and despite the



THE BARD OF KINGSESSING WRITES AN ODE UPON THE CHARMS OF ATLANTIC CITY IN AUGUST.

dry weather some really good flowers are to be seen. Miss Baker of Media seems to have great success with this flower.

Rain is very badly needed in this vicinity and many outside crops are suffering in consequence.

President Lonsdale has appointed the following gentlemen on the various committees that will have charge of the Philadelphians' and the social features of the convention.

ENTERTAINMENT—John Burton, Robert Craig, H. H. Battles, John Westcott, Chas. D. Ball.

RECEPTION AND REGISTRATION—David Bearn, John W. Colflesh, August Lutz, Joseph Heacock, John Welsh Young, Harry Bayersdorfer, Geo C. Campbell, Harry W. Schroyer, Wm. J. Baker, D. D. L. Farson, Robert Crawford, Jr., Fred Hahman, John G. Gardner, John M. Hughes.

EXHIBITION—George C. Watson.

LADIES—Chas. D. Ball, Wm. Warner Harper, Alex. Scott, Charles E. Meehan, Wm. Patterson Craig.

TRANSPORTATION—Thos. Cartledge, Geo. C. Watson, John Westcott.

HOTEL ACCOMODATIONS—Robert Kift, H. C. Scheaffer, Jos. Heacock.

PRESS—Geo. C. Watson, H. C. Scheaffer, D. D. L. Farson, Robert Kift.

BOWLING—George Craig, George Anderson, John Westcott.

Everything in connection with the coming convention is working smoothly. The entertainment committee, on which the burden of the work falls, is a strong one and their part will without doubt be well done.

Superintendent Watson says that nearly all the exhibition space has been taken up and that this feature of the convention will be well worth seeing. All the latest greenhouse appliances as well as all staple articles will be seen in competition and he says that without doubt the display will be one of the educational features of the meeting.

"Terrified at the thought of imprisonment Frank Robinson of Wynnewood, Montgomery Co., who was locked up at the 28th District Station House charged with the larceny of $75 from a florist who employed him tried to hang himself in his cell using his clothing for a rope. The turnkey discovered him and cut him down before it was too late." The above news item is from yesterday's paper. We have been unable to ascertain the florists' name, but we think it must have been remorse at having robbed a florist that prompted the poor fellow to attempt to take his life rather than fear of imprisonment.

One of our city florists was found fast asleep with his feet propped upon a chair across his doorway recently. Customers had to first wake him up to get inside.

H. H. Battles has given up his contemplated trip to Europe. Mr. Battles has not been in the best of health recently and this with the press of business has caused him to defer his trip.

Alfred Hoag met with a painful accident on Saturday last. A game of corner ball between married and single men was in progress at David Bearn's place at Bala. Mr. G. C. Watson was at the bat and swinging it for a home run he caught Mr. Hoag very near the eye. It was a very dangerous wound but with the aid of a surgeon he was fixed up and it is hoped nothing serious will result.

At a meeting of the bowlers on Saturday evening last Robert Kift was elected captain of the team to represent Philadelphia in Atlantic City. It was decided also to bring the cup back to Philadelphia. Other aspirants will please take notice, particularly the "Leuleys." K.

Chicago.

With a feeble gasp once in a while the market denotes the fact that it is not entirely dead. The closing days of the past week showed what at this season of the year might be called quite an activity. On Saturday the market was sold out clean, a thing that hasn't happened for many a day. Roses without exception are poor; the very best of them could hardly pass muster for second quality, and in carnations it is the same.

Outdoor flowers of all kinds begin to suffer from the continued dry weather. Sweet peas, which of this class are about the only thing in demand, are getting very short in stem for want of moisture.

The shipping trade is still very dull. The railroad troubles are about over and the wholesale men are now looking for an improvement. Collections are reported as very slow, both for the city and country, and so long as the retail trade continues as dull as at present there is small hope for an improvement in this direction. Wholesale men, however, are not the only sufferers. The retailer is obliged to extend credit himself to his customers, and in his case collections are equally poor.

At the last meeting of the Florist Club a very interesting paper entitled "Historical reminiscences of the Chicago cut flower trade," was read by Mr. F. F. Benthey and was much enjoyed by the members. The paper appears in full elsewhere in this issue. In the discussion it appeared that in the "good, old days" the florists of this city were rarely on speaking terms. Referring to a doubtful date one member remarked "I remember that — had a store at that corner in 1870, but I couldn't say as to the interior arrangement, for I never was inside. The feeling then existing was such that it would probably have been unhealthy for me to attempt to go in." Truly the "good, old days" of high prices and independence had their drawbacks as well as their advantages.

An election in July was an unusual feature which was brought about by the resignations of Secretary Keenan and Financial Secretary Maas. Mr. Keenan's affairs had changed so that he was unable to longer attend the meetings and Mr. Maas will remove from the city. The election to fill the vacancies resulted in the selection of Mr. J. B. Deamud as secretary, and Mr. Charles McKellar as financial secretary. Both are able men and will add strength to the club's official circle.

The regular quarterly meeting of the Horticultural Society of Chicago was held at the Sherman House last Saturday afternoon. After the routine business had been transacted, there being no essay on the program, a member laid out some work for the society to do by suggesting that it take up the proposition to establish a tree commission in this city which shall be authorized to plant and maintain shade trees on the streets on the plan followed in the city of Washington. Also that the society vigorously support Alderman Madden in his attempt to have the Lake Front Park improved and creditably maintained. On motion President Chadwick appointed a committee to confer with Mr. Madden and tender him the support of the society in his efforts to secure action in the Lake Front Park matter and any other move that will result in advancing horticulture in this city.

In response to some questions propounded by Mr. Pearson, there was an interesting discussion upon the growing of rhododendrons in this city and vicinity in which it developed that there was some diversity of opinion as to whether lime in the soil was specially injurious to these plants, some holding that it was impossible to grow them in soil containing even a trace of lime or where the water used held lime in solution, and others maintaining that a moderate amount of lime had no deleterious effect.

Appropriate resolutions upon the death of the late Dr. J. A. Kennicott, who had been a very active member of the society, were adopted by a rising vote.

Matters connected with the coming annual fall exhibition were discussed and

it was decided to call a meeting of the executive committee for Thursday, 19th inst.

Boston.

Sweet peas and carnations are the most abundant stock in the market at present. The street boys manage to sell a good many of them but the net prices realized hardly pay for the trouble of marketing. Roses are received in small quantities, but enough for the very light demand.

Mr. N. F. McCarthy is the possessor of a handsome and commodious yacht this season and frequently invites the boys to a sail in the harbor.

Mr. W. H. Elliott of Brighton has leased the Shaw place at Newtonville, recently run by J. F. Curtis. The buildings are being thoroughly overhauled and two new houses are being built.

The Growers' Co-operative Association has arranged for a large increase of floor space at their present location on Park street and have secured a lease of the premises for five years.

An interested visitor at the weekly exhibition on Saturday, July 14, was Mr. Jos. A. Dirwanger of Portland, Me.

New York.

There is very little stock coming to the city at present except carnations and outdoor flowers. Roses of good quality are exceedingly hard to obtain, but this makes little difference as there is no call for them. Lily of the valley sells very poorly this season.

W. F. Sheridan is painting up and renovating his establishment in anticipation of fall trade.

John Raynor is rusticating in the interior of Massachusetts.

Jas. Hart spends most of his time at his mansion in Madison.

Buffalo.

The melancholy days have come,
The saddest of all the year;
When nobody wants any roses,
And of florist stores steer clear.

It's a fact, the dog-day dullness is upon us and there is little excuse for anyone now to buy flowers. It may seem like treating a serious and sacred subject lightly, but nevertheless, a talk with a prominent undertaker a few days ago revealed the fact that they recognise and expect dull and busy months just as much as a hardware or dry goods merchant does, and as July and August are two of their very dullest months, little trade can be looked for in that quarter.

There are plenty of flowers for the little trade that demands them. Mr. W. A. Adams, of the late firm of Adams & Nolan, has started up at the old stand and there is little doubt but what "Andy" will make a success of it. If the good wishes of friends in the trade will help, he certainly has that and a little more.

At the last meeting of the Florist Club held on the 10th at the house of the secretary, it was decided after a lively debate to abandon the flower show for this fall. Pity t'is, t'is thus, but t'is wise. The fact is there are only a few commercial florists here who would sacrifice a few dollars for glory and that is all there usually is in flower shows in Buffalo. Others can't see any benefit to the trade unless they see the dollars dangling before their noses as carrots are hung before a donkey to accelerate his sluggish speed. Others won't join in simply because it will be a public demonstration of their being only 2d or 3d best. How few men can take a beating in anything and come up smiling with admiration for his adversary! When you meet one of those he is a jewel. Another reason for lack of support in a flower show is the almost total absence of anything like a good private place from which we might expect exhibits. In fact there is not a private establishment within 30 miles of Buffalo that amounts to beans. I beg their pardon, perhaps they do grow beans.

There is always a chance to be thankful that things are not as bad as they might be. While we are terribly annoyed with Canada flies, universal flies, tropical weather and lack of business, we have a great let-up in the drummer. For this we ought to be sincerely and devoutly thankful. It is bad enough in cold or moderate weather to have to be civil to them, but just fancy jumping from one side to another in this temperature, when they fix on you that practiced smile or fusillade of chestnuts.

Mr. Alex Scott, of Lauraville, Baltimore Co., Md., spent a week in Buffalo recently. Mr. S. was a resident of this city from 1870 to 1878 and had not visited it for nearly 8 years. He saw many changes. He has a brother residing here also in the business. W. S.

St. Louis.

Trade has been very slow during the past week. About the only thing looked for is funeral work, and that is scarce. Stock is very poor, owing to extreme warm, dry weather and the changes being made at the various establishments at present.

The regular club meeting was held on the second Thursday of the month and a very poor attendance was called to order by President Waldbart. Mr. Koenig, who was to read a paper on "Hardy herbaceous plants," failed to put in an appearance; his paper has been continued, however, and he will undoubtedly favor the club at the next meeting. Mr. Worz was appointed by the president to prepare and read a paper on the "Best method of handling and disposing of flowers by the wholesaler" after the club had heard from Mr. Koenig.

The transportation committee reported that very satisfactory terms had been secured for those expecting to attend the convention at Atlantic City. Owing, however, to there being another regular meeting to be held before the time of departure for the convention nothing final was done in the matter.

This being the regular meeting for the nomination of officers for the ensuing year, the names of the following members were proposed for the various offices, the election to be held at the regular August meeting: For president, Fred Weber, Alex Waldbart, Harry Young, Chas. Connon, R. F. Tesson; for vice-president, Jules Benecke, Frank Fillmore; for secretary, Emil Schray; for treasurer, John Young; and for trustees the following—C. C. Sanders, Jules Benecke, E. H. Michel, Alex Waldbart and R. F. Tesson.

At the Bowling Club meeting on the 14th, officers were elected for the ensuing year as follows: Harry Young, president; John Young, treasurer; and Jules Benecke, secretary. The treasurer's report was read, showing a balance on hand of $3.45. The medals for the last series go as follows: "High Score," Dr. Helwig, average score 201; "Lucky Medal," Rob't Beyer, score 264; Leather Medal, C. Roeper, score 157. Owing to the warm weather it was decided to discontinue meetings until the first Wednesday in September. It was decided also to have a team represent St. Louis at the convention, and while our heaviest men cannot attend, a fair average is expected to be secured. An assessment was levied to purchase six new balls with which the team can try to bowl themselves to glory at Atlantic City.

The committee having the picnic in charge have reported everything as moving smoothly. Arrangements have been made for all the necessary details and a circular gotten out and mailed to all the florists in town notifying them of the event and giving a list of the prizes to be competed for. Judging from the hearty endorsement the idea receives everywhere the event cannot be otherwise than enjoyable to all who participate, and all should make an effort to reach the Highlands on the 25th. R. F. T.

Toronto.

At the Flower Show to be held here by the Electoral District Society the prospects are good for an unusually well grown lot of stove and greenhouse plants ferns, palms, etc. It is to be hoped that the management may see fit to arrange them with a view to greater artistic effect than has been exhibited at this show in former years. Surely with such a fine lot of specimen plants something more might be done than to simply stand them in rows like regiments of soldiers. The management of the chrysanthemum show will also do well to take this point into their serious condition too. I know it is extremely difficult to get out of old grooves, especially in the hurry and bustle of the first day, but with the right man for superintendent, who had laid his plans beforehand, a decided change for the better might be made. The public expects these things to be done artistically these days and as the public has the money which the florists want to transfer to their pockets it would be well to try and attract its patronage as much as possible.

The time has come when stories of big gooseberries, large catches of fish and such like are in season (I have heard no stories of big profits this year yet), and when the pious gardener or florist hies himself with his wife and family to the Sunday School picnic and returns happy and full of cake and strawberries. At all events there is a great dearth of news items just now and the fish stories must wait till the convention and be told viva voce—that is if any of us ever get there. At present it looks as if we should have to mortgage our prospective Christmas trade if we want to see Atlantic City. E.

Pittsburg.

There is little or no business in the retail stores except funeral work. The markets are over run of late with bedding stuff with no demand.

Mr. Lincoln Pierson of the Lord & Burnham Co. was here this week. They will rebuild (or remodel) the greenhouses at Allegheny Cemetery at a cost of about $15,000.

J. H. Troy, of Pitcher & Manda called here last week, and reported business very good.

Mr. H. Neagley and his brother have been adding quite a number of orchids to their already fine collection (private).

A meeting of the Florist Club on Tuesday last brought quite a few of the members together. Committees were appointed to ascertain cost to members o

Hotels at Atlantic City, N. J.

The committee have obtained from the United States, the largest hotel, a special rate of $2.50 per day and a guarantee that they can accommodate four hundred guests. From at least one-half the rooms there is an ocean view, and broad piazzas surround the hotel, from which can be seen an ever moving panorama. There are also many other hotels and cottages who have promised the committee they will make room for the delegates, which list, with prices, is given below.

NAME.	PROPRIETOR.	SITUATION.	CAPACITY.	RATES PER WEEK.
Albemarle,	C. E. Cope,	Cor. Virginia & Pacific Aves.	150	$8.00 to $14.00
Amole,	Mrs. S. C. Amole,	21 South, South Carolina Ave.	40	8.00 to 12.00
Ardmore,	Mrs. Story,	166 South, Virginia Ave.	125	8.00 to 12.00
Baltimore Villa,	Mrs. Hallahan,	120 South, Tennessee Ave.	40	8.00 to 12.00
Belleview,	Mrs. McClure,	Ocean End New Jersey Ave.	100	10.00 to 15.00
Brevoort,	Mr. Norris,	18 South, South Carolina Ave.	60	8.00 to 12.00
By-the-Sea,	"	Cor. Mass. & Pacific Ave.	50	8.00 to 12.00
Carlyle,	Mrs. Hotine,	102 South, So. Carolina Ave.	150	8.00 to 12.00
Cliffou,	Mrs. Cope,	Cor. Atlantic & Conn. Aves.	50	8.00 to 12.00
Edgewater,	Miss Parkenson,	123 South, So. Carolina Ave.	50	10.00 to 12.00
Castlemere,	Mrs. M. Muldune,	106 South, So. Carolina Ave.	30	8.00 to 12.00
Epworth,	M. M. Downs,	121 South, So. Carolina Ave.	40	8.00 to 12.00
Glenville,	Mrs. Hopkins,	South Tennessee Ave.	100	8.00 to 12.00
Hewitt,	W. S. Ives,	29 South Pennsylvania Ave.	60	10.00 to 12.00
Berkeley,	Bew Bros.	Ocean End Kentucky Ave.	150	12.00 to 18.00
Elberson,	Mrs. M. J. Eckert,	Cor. Tenn. & Pacific Aves.	200	10.00 to 12.00
Hoffman,	Mrs. Calloway,	South Pennsylvania Ave.	200	18.00 to 20.00
Wellington,	H. S. Milnur,	South Kentucky Ave.	300	15.00 to 20.00
Wiltshire,	E. L. Chandler & Co.	South Virginia Ave.	150	15.00 to 25.00
Lehman,	Miss Lehman,	114 South Penna. Ave.	200	15.00 to 20.00
Lelande,	S. Wagner,	Mass. Ave. and Ocean,	150	15.00 to 25.00
Louella,	Mrs. Carver,	138 South Tennessee Ave.	40	8.00 to 12.00
Monterey,	E. K. Newcomet.	Virginia Ave. Ocean End,	100	12.00 to 20.00
Ocean Villa,	Mrs. Schernberger,	So. Carolina & Pacific,	50	8.00 to 12.00
Park Cottage,	M. B. Walker,	1302 Pacific Ave.	30	9.00 to 12.00
Raymond,	Mrs. M. D. Evans,	South Virginia Ave,	75	12.00 to 18.00
Saratoga,	Mrs. S. A. Haines,	South Carolina Ave.	40	10.00 to 12.00
Uptoo,	Mrs. Fothergill,	South Tennessee Ave.	50	8.00 to 12.00
Vinedole,	Mrs. Frambes,	South Pennsylvania Ave.	40	8.00 to 12.00
Windsor,	G. Waters & Son,	South Illinois Ave.	250	18.00 to 30.00
Fraymore,	W. W. Green & Co.	South Illinois Ave.	250	18.00 to 30.00
Brighton,	F. Hensley & Son,	South Indiana Ave.	300	20.00 to 35.00
Dennis,	Joseph Barton,	South Michigan Ave.	500	18.00 to 30.00
Shelburne,	J. W. Southwick,	South Michigan Ave.	200	18.00 to 30.00
Haddon Hall,	Leeds & Lippincott,	North Carolina Ave.	250	18.00 to 30.00
Chalfoote,	Mrs. Roberts & Son,	North Carolina Ave.	250	18.00 to 30.00
Kenilworth,	Mrs. Grubb,	Kentucky Ave. Beach End,	150	15.00 to 20.00
United States,	Mrs. J. S. Davis,	Maryland & Pacific Aves.	Special rate $2.50 per day.	
The Stratford,	(European plan),	Beach End Kentucky Ave.	$1 50, $2 & $2.50 per day; 65 rooms.	

transportation to the convention at Atlantic City, and to procure a suitable place for the club to hold a picnic about the first week in August.

Mr. B. Elliott, of Elliott & Ulam, has returned from his wedding tour, looking bright and gay as usual. A. J. E.

Montreal.

The season just past has been very unsatisfactory to the florists, especially those who make a specialty of bedding plants. A much larger stock was grown but the sales were less, and the result is each grower has thousands left over.

At the regular monthly meeting of the G. & F. Club on Tuesday, the 10th, resolutions of condolence were drafted and ordered to be transmitted to the family of the late James Burnett. By the death of Mr. Burnett the club has lost a kind and generous friend, and Mr. Bland a good and sympathetic employer.

At the same meeting a paper was read on greenhouse firing or stokeing which brought out a deal of discussion, a few very valuable wrinkles being exchanged.

There being a vacancy in the office of corresponding secretary through the resignation of Mr. Stocking, Mr. James McKenna, consented to fill the position for the balance of the year. His address is Cote des Neiges, Montreal, P. Q.

The date for the chrysanthemum show has been decided on, viz., November 7, 8 and 9, in the Windsor Hall. The advertising spaces in the prize list are being fast filled up, many of the leading American firms having secured a page each.

Mr. Bennett's new place at Lachine is fast approaching completion. It will certainly be the most commodious and complete establishment in this vicinity.

Mr. James Bray has sold out his neat little establishment on St. Catherine street, to George Hopton. The new firm is Harris & Hopton. Mr. Bray will in the future confine himself to landscape work.

The first exhibition of the Canadian Pansy Society took place last Saturday, and was fairly well attended. But as the season for out door roses had just passed and owing to the extreme hot weather lately there were no good pansies, the show was a failure in regard to quality of exhibits. A table of perennial flowers was much admired.

The show was held on Mr. Alfred Joyce's place at Outremont, the beauty of which made up in a great measure for any disappointment in the matter of exhibits. These grounds comprise some 7 or 8 acres and are a picture worth admiring. The collection of herbaceous perennials there must be one of the largest in the country. A large bed of dahlias, although early in the season was in full bloom. Mr. Joyce is an enthusastic lover of flowers and at every turn some fresh novelty is seen; whether in the shape of newest fuchsia or geranium, hardy perennial or shrub, they are all here. Mr. George Robinson the gardener deserves great credit for the neat manner in which the place is kept. BEAVER.

July 12.

Worcester, Mass.

Some rain has fallen during the last two weeks but not enough and we are again suffering from very warm, dry weather and kicking as hard as ever; what a lot of things we have had to kick about this season, the kicking attachment seems to be the only part of a florist's anatomy that never gets tired.

The plant trade has died a natural death and trade in cut flowers, although dieing a little harder and giving a few more gasps and struggles seems to be in the last throes. Society's last few stragglers have shaken the hot dust of the city off their russets and have flown away to seashore and mountain, while the weary florist is hustling to get cleaned up in time to reach Atlantic City in August and have a whack at it himself.

We had a good exhibition on the twelfth and a very fair attendance; the number of entries made up for the shortness of the schedule, the entries of zonal geraniums and twenty-four vases of distinct varieties of cut flowers being especially numerous. A. A. Hixon had a splendid stand of geranium trusses, all of good varieties, and M. F. Brierly had the next best.

F. A. Blake's stand of cut flowers contained some splendid and rare specimens which showed careful cultivation; Mr. Blake was awarded first for twenty-four vases, and Mrs. E. C. Brooks second.

The display of gloxinias in bloom was good; the plants, though well grown and flowered, were a little smaller than usual. H. F. A. Lange received the firsts in the two classes, and J. A. Abbott and Mrs. A. T. Buxton the seconds. It was a little too late for Lilium candidum in this section and consequently the exhibit was not up to the standard.

O. B. Hadwen was awarded a gratuity for a display of twenty-three varieties of coniferæ foliage, which made an interesting exhibit. H. F. A. Lange showed vases of coreopsis and Nymphæa odorata rosea that were awarded gratuities, and Arta Pierce also received an award for a stand of native wild flowers.

An interesting feature of the show, though not exactly in the florist line, was an exhibit of early celery grown by John Yacuhokouski. SEEDLING.

July 13, 1894.

Cleveland.

At the greenhouses of Wamelink Bros. stock of all kinds is in first-class condition, especially the roses; all the old stock has been thrown out and vigorous young plants put in, which are growing finely without a speck of mildew or spot. There is one house of Bridesmaid, one of Brides, one of Beauties and one of Mermets and Perles. The houses are all of uniform size being 20x100 feet. The chrysanthemums have been benched and are coming along nicely. Carnations have been discarded by this firm and they will not grow any the coming winter. J. C. Stanley, formerly with the Oakwood Rose Gardens, is in charge, ably assisted by his brother.

J. T. Wamelink is building a fine residence near the greenhouses and will move out from the city in the fall.

Kunze Bros. in Newburg is a comparatively new firm. They have three houses, 20x125.

G. M. Naumann, on Doan street, who by the way is not in the last florists' directory, put up two new houses the past spring.

Visitors the past week from out of town were, H. C. Steuger, Chicago; S. A. Anderson, Buffalo; and W. S. Rennison, Sioux City, Iowa. L. F. D.

Society of American Florists.

Indications point to the probability of a very large attendance at Atlantic City next month. As in previous years members may escape the crowd and inconvenience of paying dues and securing badges at the convention hall by remitting the amount ($3.00) to the secretary by mail at any time previous to the meeting. Certificates and badges for 1894 are now ready and will be mailed to members as soon as dues are received.

Members in arrears are reminded that the membership rules of the society require that all delinquents shall make good the amount of their arrearages before being entited to badge and privileges of membership for the current year.

WM J. STEWART, Secretary,
67 Bromfield St., Boston, Mass.

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Address THE AMERICAN FLORIST CO., Chicago.

WORTH STRIVING FOR.

Our readers are reminded that the Society of American Florists has provided handsome medals of gold, silver and bronze to be competed for each year at the time of the annual meeting. These medals are offered to the originators of new hybrids or varieties raised from seed or for the discovery and introduction of new species or varieties that are decided improvements upon existing kinds. The awards are to be made in accordance with the following rules:

No award shall be made for any plant that has not been grown at least two years in this country and exhibited at least twice before some regularly recognized horticultural society, where it shall have received a first class endorsement in writing by said society. Further, that it have the endorsement in writing of three members of the Executive Committee before it shall be considered by the full Executive Board and then only shall such award be made by a two thirds vote of the Committee, such species or variety to be shown in plant form and cut state where practicable. Not more than one medal shall be awarded in each class, and not more than three in all in each year.

These are close restrictions but they are none too close if the awards are to have that high value which will make them worth striving for. We have had the pleasure of seeing the medals and they are certainly very beautiful. The gold medal is valued at over $80.

STUDY UP.

A fact frequently commented upon is the prevailing lack of practical knowledge on the part of many of the employes in our flower stores regarding the goods they handle. Not only do they know nothing of the culture or habits of the plants and flowers which they sell and are unable to answer truthfully the numerous questions which customers purchasing plants are sure to ask, but frequently they are found to be incapable even of giving correctly the names of the most common varieties.

It would naturally be supposed that their ambition for future success and preeminence in their chosen occupation would be a sufficient stimulus to study and investigation on the part of our young men, and it would seem that a sagacious employer would make horticultural intelligence a more important requirement when hiring assistants, especially nowadays when many of the most desirable customers are well up in the knowledge of plants and flowers.

We should hear less of this lamentable ignorance if our young men would only make an effort to avail themselves of the abundant opportunities for information which are within their reach. What better use could they make of the long dull weeks of summer time which are too often wasted in indolent lounging? The time which now hangs so heavy on their hands if applied in an earnest effort for mental improvement would pass quickly and happily, and would leave them something to be proud of.

Try it, boys, and you will never regret it. There are indications that the business is already overcrowded. Unemployed gardeners and clerks are more plenty than situations are; but rest assured that there is never a day when the best man is not in big demand. There is always room at the top.

Alpine Plants in the Harz Mountains.

Some three years since a Botanical Garden was established on the Brocken, one of the highest points of the Harz Mountains, having in view a trial of the Alpine plants. Much care has been bestowed on these experiments without success. It has been found with few exceptions the Alpine plants will not thrive in that section, the raw severe winds prevailing proving disastrous. C. C.

DO YOU WANT a list of trade organizations, both national and local, with names and addresses of principal officers, time and place of meetings and other information? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

The reproduced Sets, in reduced size, of

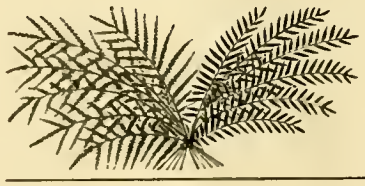
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are quite the thing for the use of Branch Stores or Agencies. Charts for making a price list go free with each group of Funeral Designs. The pictures are very clear and distinct. Prices absurdly low considering their character. $1.50 to $3.00 for sets of 27 subjects, and $3.00 to $5.00 for sets of 54 subjects. Send for catalogue.

DAN'L B. LONG, *Publisher,* **Buffalo, N. Y.,**

CORBREY & McKELLAR,
Wholesale and Commission Florists,
Phone Main 4508. 64 & 66 Wabash Ave., **CHICAGO.**
We are prepared to fill your orders with First-Class Flowers.
Give us a trial order.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
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Hardy Cut Ferns,
BOUQUET GREEN,
Laurel and Green Festooning, Wreaths, Etc.
SPHAGNUM MOSS IN ANY QUANTITY.
H. E. HARTFORD, 18 Chapman Place, BOSTON.

Cut Flowers.
L. AURATUM, $15.00 per 100.
L. SPECIOSUM, $4.00 per 100.
We will have a fine supply of these all summer. First-class for funeral work.
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15 cents per String.
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and FLORISTS' SUPPLIES.
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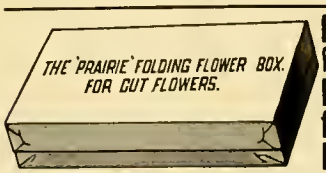
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JOBBERS IN FLORISTS' SUPPLIES, FLORISTS' VASES.
METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
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HORTICULTURAL AUCTIONEERS.



FOLDING PAPER BOXES for CUT Flowers.
Made from heavy, Manilla lined, Strawboard. Shipped flat, packed 100 in a crate.
CHICAGO FOLDING BOX CO.,
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TELEPHONE MAIN 4718.

Wholesale Markets.

Cut Flowers.

NEW YORK, July 16.

Roses	.50@ 2.00
" per 1000	$2.00@$5.00
" Beauty,	2.00@12.00
Carnations	.50@ 1.00
" per 1000	$3.00@$3.50
Valley	1.00@ 2.00
Harrisii	4.00@ 6.00
Sweet peas, per 100 bunches	$1.00
Smilax	6.00@ 8.00
Asparagus	25.00@35.00
Adiantum	.75@ 1.00

BOSTON, July 16.

Roses, Niphetos, Gontier	1.00@ 3.00
" Perle, Sunset	1.00@ 3.00
" Bride, Mermet	2.00@ 8.00
Carnations	.25@ .50
Harrisii	6.00@ 8.00
Candidum	1.00@ 2 00
Lily of the valley	2.00@ 3 00
Stock	.50
Sweet peas,	.10
Candytuft,	.50
Adiantum	1.00
Smilax	12.00@15.00
Asparagus	50.00

PHILADELPHIA, July 16.

Roses, small	2.00
" large teas	3.00@ 4.00
" Beauties	8.00@15.00
Carnations	.50@ 1.50
Valley	4.00
Smilax	10.00@12.00
Asparagus	50.00
Harrisii lilies	4.00@ 6.00
Sweet peas	.50
Cornflower	.25@ .50
Cattleyas	35.00@40.00
Adiantum	.75@ 1.00

CHICAGO, July 17.

Roses, La France, Meteor	3.00@ 4.00
" Kaiserin	3.00@ 4 00
" General assortment, per 1000	$8@$10
Carnations, long	.25@ .60
" fancies	1.50@ 2.00
Harrisii	8.00
Candidum	1.00@ 3.00

ST. LOUIS, July 16.

Roses, Perles, Niphetos, Wootton	2.00@ 3.00
" Bride, Mermet, Bridesmaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" La France, Albany, Hoste	2.00@ 3.00
" Beauty	5.00@15.00
Sweet peas	.15@ .25
Carnations, long	.50@ .75
" short	.50
Adiantum	1.25
Hollyhocks, asters	.50
Smilax	15.00
Ferns, common, per 1000	$1.25

BUFFALO, July 16.

Roses, Beauties	10.00@15.00
" Mermet, Bride,	3.00@ 5.00
" Meteor	5.00
" Perle, Gontier, Hoste	3.00
" Cusin	3.00
Carnations, long	1.00@ 1.25
" short	.50@ .75
Auratum lilies	12.50
Valley	3.00
Candytuft	.25
Sweet peas	25
Smilax	15.00@20.00
Adiantum	1.25
Asparagus	50.00

GEORGE A. SUTHERLAND,
Successor to PECK & SUTHERLAND,
Successors to WM. J. STEWART.
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield St., BOSTON, MASS.
New England Agent for the GREAT ANTIPEST.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

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FOR 1894
IS NOW READY.
PRICE $2.
AM. FLORIST CO.

BURNS & RAYNOR'S
SPECIALTIES:
American Beauty,
Bride,
Bridesmaid,
Meteor,
Sweet Peas.
BURNS & RAYNOR,
49 West 28th St., NEW YORK.

SPRING, SUMMER,
AUTUMN, WINTER.
In dull season and busy season.
All the year round.
Roses, Lily of the Valley
and all other choice stock can be obtained of
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FLORIST,
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Roses Shipped to all points. Price list on application.

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Careful Shipping to all parts of the country.
Price list on application.

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Cut Flower Exchange, NEW YORK.

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FLORIST,
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Established 1879.

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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS, Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

H. A. SALZER sailed for Europe July 11.

MR. D. M. FERRY, Mrs. Ferry, D. M. Ferry, Jr., and Blanche Ferry sailed for Europe on the 11th.

SPRINGFIELD, OHIO, JUNE 10.—J. H. Mellin purchased at public sale the orders and customers lists of Chas. A. Reeser for $725.00.

KEARNEY, NEB.—A severe hail storm destroyed much of the vine and corn seed crops in this vicinity on the night of the 8th. Beans are also hurt.

The Pea Crop.

Reports from Northern New York dated July 10, indicate that the severe drought of ten days previous and still continuing has very seriously affected the crop and that excessive shortage is now anticipated unless early rains occur.

Horticultural Exposition at Erfurt.

The display here is very creditable. The flower beds at this time (June 25) are planted mainly with geraniums and Pansies.

E. Benary has a fine bed of Bugnot pansy. N. L. Chrestensen, a good bed of Pansy Meteor, a very distinct sort. Platz & Son show an extensive exhibit of tree currants and fuchsias. Chr. Lorenz an elegant group of cacti, also carpet bed of same. F. A. Haage a fine bed of ten week stocks. Benary a good bed of petunias. Haage & Schmidt show pansies and a large collection of herbaceous plants.

There is a new yellow variety of stocks called Princess May claimed to be the earliest. Also Aurora, a new creamy yellow pink tinted. Both should be good sorts for the American trade. C. C.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By young man of 20; 3 years' experience in rose growing. J. J. E., Box 365, Madison, N. J.

SITUATION WANTED—By a florist, 7 years' experience, private or commercial; age 20. Best references. EMIL SMITH, 703 Jackson St., Louisville, Ky.

SITUATION WANTED—By a man that can speak German and English, as florist or general greenhouse man. Can give first-class references. Address M. N., care American Florist, Chicago.

SITUATION WANTED—As foreman in commercial place; single, age 28; thorough practical grower of roses, carnations and the growing of all kinds of florist stock. Address MACK, care Am. Florist.

SITUATION WANTED—By young man; 8 years' experience in wholesale, retail and catalogue trade. Reliable, capable, sober and a thorough worker. Best of references. State wages. Address L. BARRIER, care N. S. Stover, Grand Rapids, Mich.

SITUATION WANTED—By W. Bailey, late gardener to Mr. J. B. Perkins, Cleveland, Ohio, is open for engagement as gardener. Life experience. Sickness of employer reason of change. Best of references. State salary. Address W. BAILEY, Box 16, West Cleveland, O.

SITUATION WANTED—As assistant on private place, single, age 27; 12 years' experience in all branches of gardening. Have worked several years on one of the leading private places in this country. Best references. Address J. F. E., care B. Fagan & Son, Islip, N. Y.

SITUATION WANTED—A first-class rose and cut flower grower would like to correspond with some firm needing the services of a first-class man. Fully able to take charge of the largest place. First-class references. Address FLORIST, 1050 Adams St., Grand Rapids, Mich.

SITUATION WANTED—As foreman, by a specialist in forcing roses, carnations and general stock; also experienced in growing vegetables. First-class references. First-class commercial place wanted, or private place. State wages and other facts. Address H P, care American Florist, Chicago.

SITUATION WANTED—As manager or foreman by a practical grower of roses, carnations, violets, chrysanthemums, decorative plants, etc., the forcing of bulbs, making up and decoration a life experience. Good references. State wages, etc. D N, 128 La Salle St., Room 8, Chicago.

FOR SALE—At ¼ cost, a Rider hot-air pumping engine in good order. WILLIAM H. BARNES, Box 845, Independence, Kan.

WANTED—Hot water boiler, second-hand. Hitchings preferred. Address S. WOOD, 24 Woodside Ave., Chicago.

FOR RENT CHEAP—Greenhouses, stocked for cut flower growing. J. H. ALLEN, Summerdale, Ill.

FOR SALE CHEAP—Large second-hand florist's ice Box, value about $75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE OR RENT—Greenhouse, 2000 square ft. glass. For particulars inquire of THEO. NOEHLE, Green Bay, Wis.

FOR SALE—1500 feet 4-inch pipe—Hitchings. Price on application. P. R. QUINLAN & CO., 904 W. Genesee St., Syracuse, N. Y.

FOR SALE—2 large Bay Trees, round heads, 7 feet broad, 12 to 14 feet high. Shown at World's Fair. VAUGHAN'S SEED STORE, Chicago.

FOR SALE—1000 feet of 4-inch cast iron pipe and fittings, as good as new. MRS. GEO. WALDBAUER, Saginaw Mich.

FOR SALE—6 greenhouses in good condition and in good locality. Good local trade. Address MRS. P. SCHINDLER, 43 Marion Place, Chicago.

FOR SALE CHEAP—Large, new, hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE—Several good second-hand boilers, just the thing for greenhouses, for either steam or hot water heating, in first-class condition, and will be sold cheap. CLEVELAND STEAM BOILER WORKS, Cleveland, Ohio.

FOR RENT—A first-class commercial place in suburb of Chicago, containing 15,000 square feet of glass, well stocked with best varieties of forcing roses. Address RENTER, care Olsen & Hughes, 126 Wabash Ave., Chicago.

FOR SALE OR EXCHANGE for Iowa or Missouri land, greenhouses in good northwestern town—good 8-room house, good barn; have an excellent trade. Everything in first-class order and new, centrally located and on best street in town. Address W. W. H., care American Florist.

FOR SALE—One of the finest greenhouses in Western New York; house nearly new; all modern improvements; heated by hot water; well stocked, and paying handsomely. Best of reasons given for selling. Residence in connection if desired. For further particulars call on or address DANFORTH BROS., 79 & 80 Agency Building, Buffalo, N. Y.

WANTED.

NEW CROP SEED of best strain of Ampelopsis Veitchii. Address JOBBER, care American Florist, Chicago.

VAUGHAN'S BULBS "IN SEASON"

READY NOW:

Roman Hyacinths,
Lilium Harrisii,
Freesias, best in the U. S.
New Seed Primula, Pansy, etc.

NEW YORK: 26 Barclay Street. VAUGHAN'S SEED STORE 146-148 W. Washington St., CHICAGO.

Mention American Florist.

Grow Swainsona.

The best and most profitable pure white flower grown. Takes the place of Roman hyacinths or lily of the valley, producing spikes of flowers from 4 to 6 inches long, in the greatest abundance the entire year—never out of bloom—lasting well when cut. 100 Swainsona will pay you three times as much as same space in best carnations. No florist should be without this most useful flower. After a trial it will be considered indispensable.

EASY TO GROW.

An exceptionally good and paying cut flower.

Strong young plants, $1.00 per doz.; $6.00 per 100.

Larger ones, $1.50 per doz.; $10 per 100.

FAUST & BRO.,
MERION STATION, P. R. R., PA.

Roses. Roses. Roses.

ONLY A FEW THOUSAND LEFT.

	Per 100
1000 PERLES	$3 50
3000 W. LA FRANCE	2 00
1000 BRIDES	2.50
500 MERMETS	2.50
200 BEAUTIES	5 00
300 LA FRANCE	3.00

The above being fine, clean, 2½-inch stock, specially grown for benching. Also have

1200 CLIMBING PERLE, out of 4-inch pots.....$4.00 per 100

J. B. HEISS,
116 S. Main St., DAYTON, O.

FOR SALE.

Six (6) greenhouses, two hot water boilers, about 2000 feet 2-inch wrought iron pipe, valves, etc., lot of hotbed sash, frames, benches and about 35,000 flower pots. The entire plant will be sold at a very low cash price, as the whole must be removed off the premises before Sept. 1st. For particulars address L. R. MUNN, Station C, Brooklyn, N. Y.

CHRYSANTHEMUMS.

From 2½-inch pots..... $3.00 per 100

STRONG SMILAX, from 2½-inch pots, $2 00 per 100; $18.00 per 1000. SAMUEL J. BUNTING, Elmwood Ave. & 58th St., PHILA., PA.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

WE GUARANTEE

our double Von Sion Narcissus to be the TRUE golden yellow variety. We also guarantee all our Bulbs to be true to name and color. References as to the quality of our bulbs we can give you to nearly all the leading Bulb Importers of the United States.

OUR PRICES ARE EXCEEDINGLY LOW.
ASK FOR OUR 1894 CATALOGUE.

Send your orders AS SOON AS POSSIBLE, as we commence despatching Bulbs soon.

SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE, near Haarlem, **HOLLAND.**

FOR SALE. Now ready for delivery.

BERMUDA SPICE LILY } 7 to 9 in. bulbs, $20 per
Imp. Amaryllis Johnsonii, } 100; $170 per 1000.
FREESIA REFR. ALBA, 5-16 in. in diam., $2.50 per 1000 in lots of 5000.
" " " Seed, $2.00 per 1000.
GLADIOLUS SHAKESPERE, 2½ to 3 inches in diam. $6.00 per 100; $50.00 per 1000.
ZEPHYRANTHES ROSEA, } large bulbs, $2 per
" FLORIBUNDA } 100; $15 per 1000.
" ATAMASCO, $1 per 100; $8 per 1000
NERINE SARNIENSIS } large flowering bulbs, $8
Guernsey Lily, } per 100.
CALLA BULBS, 4 to 6 inches at crown, $7 per 100.
Best var. FRENCH CANNAS, $6 per 100; $40 per 1000

Above prices are for delivery in New York, thence by Express or otherwise at purchaser's cost. C. O. D. from unknown parties.

R. H. JAMES,
Columbia Farm, ST. GEORGES, BERMUDA.

HERMANN'S SEED STORE,

413 EAST 34TH STREET,
Near Long Island Ferry, NEW YORK.

JUST IN, NEW CROP OF
Primula chin., Cineraria hybr.

We are now ready to book orders for
LILIUM LONGIFLORUM,
ROMAN HYACINTHS, LILIUM HARRISII,
LILY OF THE VALLEY, ETC.
Write for prices, it will save you money.

August Rölker & Sons,

136 & 138 W. 24th St., P. O. Station E. New York,
Supply the Trade with
Bulbs, Seeds and Requisites.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

ONION SEED.

CROP 1894.

Prices for New Crop made on Application.

COX SEED AND PLANT CO.
411, 413 & 415 Sansome Street,
SAN FRANCISCO, CAL.

5,000,000 FREESIAS

Buy FIRST HAND. We will deliver Freesia Bulbs, all charges for transportation paid, as follows:

3-8 to 3-4 inch per 1000, $4.00
1-4 to 5-8 inch per 1000, $3.00

Liberal discount on larger lots. Send for our price list.

Order NOW your Japan Bulbs, Longiflorum, Auratums, Rubrums, Albums, we are Headquarters. We are the ONLY FIRM in the U. S. who guarantee you SOUND BULBS delivered.

Address all communications to
H. H. BERGER & CO.,
(Established 1878.) SAN FRANCISCO, CAL.

SEEDS!

PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

Hulsebosch Brothers,

OVERVEEN, near Haarlem, HOLLAND.

Bulbs AND Plants

We are now prepared to quote lowest possible prices for next July, August and September delivery.

Illustrated Wholesale Catalogues on application.

HULSEBOSCH BROS.,
ENGLEWOOD, N. J.

PITCHER & MANDA,

HOME GROWN
Lilium Candidum Bulbs
NOW READY.
50c per dozen; $3.00 per 100; $25.00 per 1000.
SHORT HILLS, NEW JERSEY.

PRICES LOWER ON Bulbs AND Plants

OF STANDARD QUALITY.
For Catalogue, address
C. H. JOOSTEN, IMPORTER.
3 Coenties Slip, NEW YORK.

JOHN BARTH BOS,

BULB GROWER.
OVERVEEN, HAARLEM, HOLLAND.
Agents for U. S. and Canada:
C. B. RICHARD & CO.,
61 BROADWAY, NEW YORK.
Trade Catalogue on application.

News Notes.

SIOUX CITY, IOWA.—Mr. Walter Rennison is away on an eastern trip.

TORONTO, ONT.—Grant & Robertson have started in business at 192 Howland avenue.

CANTON, O.—J. B. Whitacre lost about $200 worth of glass from hail during the June storm.

WORCESTER, MASS.—H. F. A. Lange is planning to build a house 150x27 feet for summer roses.

CHARLESTON, W. VA.—Mr. Leroy T. Bonsall, formerly of J. E. Bonsall & Son, Salem, O., will establish a retail business here.

SAGINAW, MICH.—Grohmann Bros. are erecting three houses, each 20x100, on their grounds at 3368 S. Washington avenue.

DALLAS, TEXAS.—Spring plant trade was about 25% less than last year. Average retail price of 4 inch geraniums was $1 a dozen. Collections good.

SAGINAW, MICH.—Wm. Roethke is rebuilding three houses 21x100. Frederick Ahrens is building one house 20x100. Mr. Ahrens is a new florist on Emma street, west side.

BROOKLYN, N. Y.—Mr. J. Austin Shaw has secured the American agency for the house of Louis Van Houte, Pere. This will not interfere with Mr. Shaw's florist business, which goes on as before.

SPRINGFIELD, O.—David Wirth is building one rose house 20x100, one plant house 10x100 and one 20x50. Miss Bell Miller is building one house for carnations 18x80. Brown & Canfield added early in the spring a plant house 10x166.

TERRE HAUTE, IND.—Cowan Bros. is the style of a new firm that has purchased John G. Heinl's newer place, containing 12,000 to 15,000 feet of glass. The firm is composed of Mrs. Jane Cowan, James, Edward and Robert Cowan. The address is 2020 Spruce street.

PITTSFIELD, MASS.—Mr. Geo. W. Burbank is starting into the business here. He has two houses, each 17x70, already built and will add another this fall. He intends to build two more houses, each 18x100, next spring, for roses. Mr. J. H. Brumby is his superintendent.

SING SING, N. Y.—Spring plant trade was about the same as last year. Average retail price for 4 inch geraniums was $1.00 a dozen. There was a large increase in the call for pansies and geraniums and much less call for fuchsias. Collections are decidedly more difficult than last year.

WORCESTER, MASS.—Spring plant trade was about 5% less than last year. Average price of 4-inch geraniums was $1.50 a dozen. Increased call for pansies and double red geraniums. Collections more difficult. Taking everything into consideration, spring plant trade was not quite as satisfactory as last year.

TOPEKA, KAN.—Spring plant trade was about the same as last year. 4-inch geraniums will not sell here; customers do not want to pay more than $1.00 a dozen for them, so we keep them in 2½ inch pots and sell them at $1.00. Taking everything into consideration, spring plant trade was about as satisfactory as last year.

SAGINAW, MICH.—Spring plant trade was about 10% larger than last year. Average retail price of 4-inch geraniums was $1.00 a dozen and very good at that. We have found it no more difficult to collect accounts this year than last. Taking everything into consideration, spring trade was as satisfactory as that of last year.

HOUSTON, TEX.—Spring plant trade was about 50% larger than last year. Geraniums are sold here in 3-inch pots, and the average retail price was $1 a dozen. The demand was very heavy for roses, geraniums and pansies. Taking everything into consideration the spring trade was much more satisfactory than last year. All the florists here are doing very well.

ST. PAUL, MINN.—Spring plant trade was about the same as last year in dollars. Average retail price of 4-inch geraniums was $1.25 to $1.50 a dozen. There was an increased call for geraniums and less call for coleus, alternantheras, etc. Collections have been easier as a rule. Taking everything into consideration spring trade was quite as satisfactory as last year.

SAVANNAH, GA.—Spring plant trade was about the same as last year. Average retail price of 4 inch geraniums was $1.50 to $2.00 a dozen. The yearly exhibition of chrysanthemums considerably increased the call for plants and we sold a large quantity at good figures this year. Taking everything into consideration there was hardly any difference in the trade from that of last year.

HAMILTON, ONT.—Spring plant trade was about the same as last year. Average price of 4-inch geraniums at retail was 60 cents to $1 a dozen. We noted an increased call for the dwarf cannas. Collections have been very much more difficult. Of course in view of the above the spring trade was not as satisfactory as last year. There was a lot of plants left unsold, especially in the market trade.

LOWELL, MASS.—Spring plant trade was about 40% less than last year. Average retail price of 4-inch geraniums was $1 a dozen, and leading varieties at that. There seemed to be less call for carpet bedding plants, and hardly any demand at all for alternantheras. Collections have been much more difficult. There was a good deal of price cutting, and taking everything into consideration the spring plant trade was not as satisfactory as that of last year.

CHATHAM, N. Y.—The house mentioned in a previous issue as being built by Mr. R. E. Shuphelt is on the short-span-to-the-south plan, and is for carnations. The house will be glazed with 16x24 glass. Mr. Shuphelt is also erecting another violet house in connection with the house previously mentioned, 10x35. These are not connected with his old houses, but are the commencement of a new set. When these are completed he will have a total of about 6,000 feet of glass.

LONDON, ONT.—Spring plant trade was about same as last year. Average retail price of 4-inch geraniums was 75 cents to $1 a dozen. Increase in call for coleus and geraniums, decrease for alternantheras, cannas and annuals. Collections satisfactory. Trade not entirely satisfactory as we were prepared for an increase. E. Meredith is adding one house 20x100 for roses and one 10x100 for general stock. W. S. Greenway is building two houses 20x80 for chrysanthemums. John Kelly is a new florist who started in last fall with two houses 20x120 and one 14x50.

Water Plants.

Eichhornia Azurea (New Blue Water Hyacinth), each 20c; dozen $1.75.

Eichhornia (Pontederia) Crassipes Major (Water Hyacinth), $2.00 per 100, prepaid, or $8.00 per 1000, not prepaid.

	Each	Doz.	Per 100
Nelumbium Speciosum	$.40	$5.00	$25.00
Nymphæa Deveniensis	.50	5.00	
" Flava	.20	2.00	8.00
" Odorata	.10	1.00	6.00
" " Gigantea	.20	2.00	12.00
" Zanzibarensis Azurea, in bloom	.40	3.50	25.00
" Rosea, in bloom	.40	3.50	25.00
" Dentata	.50	4.00	30.00
Pistia Stratiotes or Water Lettuce		.15	1.00
Myriophyllum Proserpinacoides or Parrel's Feather		.15	1.00
Sarracenia Variolaris	.10	.50	3.00
Limnocharis Humboldtii (Water Poppy)	.10	.60	4.00

Small plants of N. Zanzibarensis and N. Dentata, 10c each, or seeds 10c per large packet, or $2.00 per ounce, not prepaid.

Nephrolepis Exaltata (Sword Fern), selected plants from open ground, $12.00 per 1000, or $2.00 per 100, delivered.

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COLEUS, 10 kinds by mail.....60c per 100
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ALTERNANTHERA P. Major by mail.....50c per 100

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Plants from last fall; these have a foundation and will begin to run strong at once. $2.50 per 100; $20.00 per 1000.

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Special prices at wholesale, on application. Splendid stock and assortment.
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The nice, clean stock of forcing roses in following numbers and varieties, true to label. Must be sold to make room.

300 Brides, 4-inch; 600 3-inch.
1300 Mermets, 4-inch; 340 3-inch.
640 Perles, 4-inch; 525 3-inch.
80 Mme. Testout, 4-inch.
250 La France, 4-inch.

4-inch $10.00 per 100; 3-inch $6.00 per 100.

580 Bridesmaids, 3-inch.....$7.00 per 100
100 Kaiserin Augusta, 3-inch...10.00 per 100
80 Mme. Testout, 4-inch.....for $12.00
50 American Belle, 4-inch.....for 10.00
100 American Beauty, 3-inch.....for 10.00
160 " " 4-inch.....18c. each
175 " " 5-inch.....25c. each

Cash must accompany order.

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Rose Plants.

		Per 100		Per 100
BRIDES.....	2½-in.	$4.00	3-inch	$6.00
MME. HOSTE....			3-inch	6.00
K. A. VICTORIA	2½-in.	5.00	3-inch	8.00
NIPHETOS.....			3-inch	6.00
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Fine, thrifty, healthy stock.

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2½, 3½ and 4½-inch pots.

CUT SMILAX always on hand.

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AMERICAN BEAUTY	2½-inch	$ 7 00	3½-inch	$ 3 00	
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MERMETS	"	4.00	"	9 00	
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PERLES	"	4 50	"	10.00	
CLIMBING PERLE	"	5.00	"	11.00	
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Perle, Niphetos, Mermet, Bride, Victoria, Meteor, La France, Albany, Gontier, White La France, Soupert and Bridesmaid, 2 1-2 inch pots, $5.00; 3-inch pots, $6.00 per hundred.

AMERICAN BEAUTY, 2 1-2 inch, $6.00; 3-inch, $8.00 per hundred.

THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

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40,000 FIRST QUALITY FORCING ROSES.

READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last two years, and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

GEN. JACQUEMINOT, METEOR, KAISERIN A. V. ULRICH BRUNNER, SOUV. DE WOOTTON, BRIDESMAID,
3-inch pots, $9.00 per 100. 4-inch pots, $12.00 per 100.

PERLES, SAFRANO, SUNSETS, MME. HOSTE, BON SILENE, MERMETS, BRIDES,
3-inch pots, $7 00 per 100. 4 inch pots, $10.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

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Roses, H. P. Roses, Rhododendrons, Azalea mollis, Clematis, Hydrangeas (bushy and tree form), Aucuba, Buxus, Acer in sorts, Viburnum plicatum, Dutchman's Pipe, Magnolias, etc.

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Mermets, Cusins Wattevilles, Hoste, Meteor and La France, $3.00 per 100.
Strong American Beauties, $5.00 per 100; $40.00 pe 1000. 500 at 1000 rates.

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ROBERT F. TESSON,
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Strong, clean, vigorous stock of

CUSINS, BRIDES, MERMETS, METEOR, BRIDESMAID, PERLES,

in 2½, 3 and 4-inch pots; cheap for cash.

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STANDARD AND NEW KINDS.
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Clean, healthy stock.

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Strong plants, from 3-inch pots, $8 per 100; $75 per 1000.

WOOD BROTHERS, Fishkill, N. Y.

ROSES.

Strong, healthy plants, from 2, 2½ and 3-inch pots, price, $3 00, $4.00 and $6.00 per 100.

PERLE, SUNSET, NIPHETOS, MERMET, BRIDE METEOR, WOOTTON, M. NIEL, LA FRANCE, AND ALBANY.

Strong AM. BEAUTY, from 2-inch pots, $4.00 per 100.

JOSEPH HEINL, Jacksonville, Ill.

Cincinnati.

Trade during the week has been very spasmodic, funeral work principally, with very few flowers to do same with. White sweet peas, asters, verbenas, candytuft and a few Perle and Mermet roses and balsams seem to be all that is available in this market.

Wm. Gray, manager for J. A. Peterson, showed us a handsome piece of work composed of palm leaves, adiantums and Mermet roses, all tied with a handsome bow of ribbon. Julius Baer has also had quite a lot of funeral work.

The following retail and wholesale florists will close their respective places of business on July 26th to attend the 1st annual outing of the Cincinnati florists: A. Sunderbuch's Sons, Wm. E. Brown, assignee of B. P. Critchell, T. W. Hardesty, Julius Baer, Cincinnati Floral Co., Lew H. Kyrk & Co., Mrs. H. A. Kresken, Robt. A. Betts, Max. Rudolph, The Hoffmeister Floral Co., Geo. Meek, H. Edwards, Fred. Gear, H. L. Sunderbruch and J. M. McCulloughs' Sons' cut flower department. Only three florists refused to sign the closing paper.

Frank Ball has charge of the base ball team for the city and R. Witterstaetter for the growers. Otto Walke will captain the foot ball team, Julius Peterson the bowling contest, Thomas Jackson the qnoit pitchers and Ben George the rowing contest. H. L. Sunderbruch will umpire the ball game. "We are going to have a good time."

While in London Mr. Albert McCullough had the pleasure of attending the 55th anniversary festival of the Gardeners' Royal Benevolent Institution established in 1838. About 150 people were seated at this banquet, said banquet being held at Whitehall rooms, Hotel Metropole. This is one of the finest banquet halls in London and was beautifully decorated for the occasion with orchids, anthuriums, etc. The decorating were donated by the gardeners. This Gardeners' Institution is as I understand, for the relief of indigent gardeners and their families who have aged in the grand work of gardening. In order to become beneficiary of said institution, one must be well recommended and be ballotted on to be admitted. Every year at this anniversary festival a subscription is taken up for the support of the institution and upon this occasion the subscription amounted to 1,250 guineas or about $6,562, which shows the charitable disposition of the London gardeners and their friends. The banquet occurred on the evening of Thursday, June 21st.

The menu contained all that the inner man could ask for, and as five hours was consumed in eating, drinking and talking, we imagine that all enjoyed themselves. Mr. McCullough cannot speak too highly of his entertainment on this occasion. His general trip abroad was a pleasant one and his health much benefited. He reports the bulb outlook good.

John Lodder and daughter, of Hamilton, O., left Monday for a six weeks' trip including Cleveland, Buffalo and Auburn, N. Y.

Herman Schlachter, of Winton Place, reports being robbed of $20 in cash and a check for $60. No clue to the thief.

J. A. Peterson is on the sick list this week, but we trust it will be nothing serious.

J. B. Heiss, of Dayton, O., and W. S. Bell, of Lexington, Ky., called recently.

G.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

"HELEN KELLER"
The new Carnation; pure white, delicately marked with red.
Price for well Rooted Cuttings: $3.00 per dozen; $12.00 per 100; $25.00 per 250; $80.00 per 1000. 500 at 1000 rate. Orders may be sent either to
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THE JACQUEMINOT CARNATION
is endorsed as a shipper and keeper; sells at sight, and is at present a mass of buds and blooms. NO MORE SAMPLES—we cannot spare the time. Send for circular. Per dozen, $2.00: per 100, $10.00; per 1000, $80.00. 250 at 1000 rate.
PETER FISHER & CO.,
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Rooted Cuttings all sold or planted out. Field plants for sale in the fall.
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From 2½-in. pots, @ $3 per 100.
STRONG SMILAX, from 2½-inch pots, $3.00 per 100; $25.00 per 1000.
PANSIES, from cold frame, $15.00 per 1000.
Address J. G. BURROW, Fishkill, N. Y.

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WHITE PLUME, GIANT PASCAL, GIANT GOLDEN HEART and GOLDEN SELF BLANCHING.
Field-grown plants, $1.25 per 1000.
The New PINK PLUME, transplanted plants, $3.50 per 1000. Cash with order.
Sample mailed free.
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Special and Hardy Water Lilies of all colors.
VICTORIA REGIA AND V. RANDI, EURYALE FEROX.
Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc., etc. Nymphaea Laydekeri rosea (awarded a Medal at World's Fair); most charming of all the HARDY Lilies; $2.50 each.
Other Columbian Novelties see catalogue.
WM. TRICKER & CO., Clifton, N. J.

Carnations a Specialty
Rooted Cuttings and Young Plants sold out. Nice Field-Grown Plants in Sept. Send for prices.
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THE AMERICAN FLORIST CO.'S
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AND
REFERENCE BOOK
FOR 1894
CONTAINS THE FOLLOWING:

1. The names and addresses of the Florists, Nurserymen and Seedsmen of the United States and Canada, the exact branch of the business each is engaged in being indicated.
2. A separate list of firms that issue catalogues, the space devoted to each branch of the business in each catalogue being also given.
3. A list of the names and addresses of superintendents of leading parks in the U. S. and Canada.
4. A list of the principal cemeteries of America at which the arts of the landscape gardener and florist are used in beautifying the grounds.
5. A complete, alphabetically arranged list of Roses in commerce in America, with class, habit of growth, date of introduction, name of introducer, and brief, accurate descriptions of the flower of each. Synonyms are also plainly given.
6. A complete, alphabetically arranged list of Chrysanthemums in commerce in America, with class, and brief, accurate description of each. Synonyms are noted and varieties that are very popular with American growers are designated by a star, and this year's introductions by a dagger.
7. A complete, alphabetically arranged list of the Carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each.
8. Seasonable Hints for the year, arranged in weeks, written by Mr. William Scott, and covering every detail of a general florist business. This is decidedly the most valuable contribution to the literature of the trade ever published. It is written in a plain, practical way, by a man who knows what he is talking about.
9. A historical sketch of the Society of American Florists from its organization to date, including officers for each year and lists of essays read at each meeting, with other information of interest.
10. A similar historical sketch of the American Association of Nurserymen.
11. A similar historical sketch of the American Carnation Society.
12. A similar historical sketch of the American Seed Trade Association.
13. Similar historical sketches of the Florists' Hail Association of America; of the National Chrysanthemum Society of America; of the Florists' Telegraph Delivery Association.
14. A complete list of all National and Local Trade Organizations, with names and addresses of principal officers, time and place of meetings, etc.
15. Statistics of Commercial Floriculture in the U. S. from the last census.
16. Statistics of the Nursery Industry in the U. S. from the last census.
17. Statistics of Seed Growing in the U. S. from the last census.
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GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
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ERMENILDA. W. R. SMITH, THE QUEEN, W. G. NEWITT and NIVEUS, **$5.00 per 100.**

Prices of other varieties on application.

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ADRIAN, MICH.
Mention American Florist.

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begs to call special attention of the American nursery trade to his splendid stock of plants grown for export in the fall, consisting chiefly of

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ASPARAGUS PLUMOSUS NANUS.

Extra fine plants from 5-inch pots, $30.00 per 100.

SMILAX, from 2¼-inch pots, cut back, $2.00 per 100; $15.00 per 1000.

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Herr's Pansies are THE Pansies. See adv. later on.

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POT LABELS.	PLAIN.	EXPRESS PREPAID.	PAINTED.
3-inch.....	25c per 1000.....	40c	55c.....35c
3½-in	30c "	45c	65c 45c
4-inch.....	35c " ...	70c	90c.....50c
5-inch	40c "	90c	$1.00.....50c

CASH WITH ORDER.
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Cyclamen Seeds.

KOCH'S SUPERB PRIZE CYCLAMEN,
The Finest Strain in the World.

Bright dark red.....	1000 seeds $4.50
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Mont Blanc, EXTRA	1000 seeds 6.25

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FOR 1894

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MARIE LOUISE, SWANLEY WHITE, CZAR AND SCHOENBRUN,

from 2-inch pots, $4.00 per 100; $30.00 per 1000.

Chrysanthemums, young, vigorous stock, just the thing for single stems, in **50 PRIZE WINNING SORTS,** $4.00 per 100; $30.00 per 1000.

We still have a few thousand 2½-inch plants, strong, of **WHITE LA FRANCE and AMERICAN PERFECTION,** at $4.00 per 100; $30.00 per 1000.

Above are two ideal Roses, surpassing most varieties in loveliness of shading, and surpass all without exception for durability in a cut state.

ROSES in best commercial sorts, 2½-inch strong, our selection, $20.00 per 1000. An enormous stock in other departments.

For catalogue and estimates

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To the Trade.

Any person who wishes for advertising space in the prize list for the coming Chrysanthemum Show of the Montreal (Canada) Gardeners' and Florists' Club, and have not received a skeleton copy of same, should lose no time writing the secretary for one. The list when complete will be circulated widely amongst the trade throughout the U. S. and Canada; also locally, and cannot fail to be a valuable advertising medium.

All communications to be addressed to

FRED. BENNETT, Sec'y,
62 Aylmer Street, MONTREAL, CAN.



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A. BLANC,
Engraver for Florists,
PHILADELPHIA, PA.

Tobacco Dust.

Per barrel (about 125 lbs.), $2.50. Sample free by mail.

HERRMANN'S SEED STORE,
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near Long Island Ferry, **NEW YORK.**

FEW PTERIS TREMULA

From 2¼-inch pots, 10 to 12 inches high, ready to pot into 4s, $3.50 per 100; $30.00 per 1000.

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. . . SEDAMSVILLE, OHIO.

Smilax Plants Cheap.

Out of 2 and 3-inch pots, also transplanted plants out of boxes. Never had as fine and large stock before. Please state number you desire and I will give you the lowest prices. Safe delivery and best satisfaction guaranteed with every shipment. Sample order 10 cts. Terms strictly cash.

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For eleven years the growing of FINE Pansy Seed has been my Specialty.

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Is what everybody wants and will find in the **DIAMOND STRAIN.** Thousands of amateurs and florists whom I annually supply with this strain say it is the best. Its large and perfectly formed blooms, with thick and velvety petals of an endless variety of rich and delicate colors and tints, often in combinations that if not seen would be difficult to believe ever existed in a pansy, distinguishes this strain above all others. I particularly invite a trial order from florists who have never dealt with me, feeling confident that a trial and comparison with other strains will result in further trade to our mutual advantage.

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PRICES; All varieties mixed, over 50 distinct sorts and an endless variety, per ⅛ oz. $1 00; per ¼ oz. $1.75; per ½ oz. $3.50; per oz. $6.00. Cash with order.

L. W. GOODELL,
PANSY PARK,
Hampshire Co., DWIGHT, MASS.

ZIRNGIEBEL GIANT PANSIES.

Owing to favorable weather, have been magnificent this season. Never before have we obtained such size and colors; and as usual, wherever exhibited, have eclipsed everything else, receiving also the most flattering testimonials from the leading florists and seedsmen all over the country.

New seed ready now of both the Giant Market and Giant Fancy in trade packets of 2,000 and 500 seeds respectively at one dollar each, with practical directions for growing pansies. Also plants for sale later on.

DENYS ZIRNGIEBEL,
. . . NEEDHAM, MASS.

Pansy ★ Seed.

The **JENNINGS STRAIN** of high grade Pansy Seed. New crop now ready. Saved with special care from only the very finest varieties and (warranted) first-class in every respect.

THE JENNINGS XX STRAIN.

The cream of Pansies. Grand colors mixed, pkt., 1500 seed, $1.00; 1 oz. $8.00.

The Jennings Strain, finest mixed, pkt. $1.00 about 2500 seed; 1 oz. $6.00; 3 ozs $15.00. No skim milk in this strain. (They are just as good as I can make 'em). To my old patrons I would say they are a big improvement over last season—more variety and finer colors. The best strain for florists either for winter bloom or spring sales; all large flowering.

Black Dr. Faust, finest.....	pkt., 2500 seed,	$1.00
Finest Yellow, black eye.....	" "	1.00
Pure White, the best.....	" "	1.00
Victoria, bright red.....	 pkt , 1000 seed,	1.00

All my own growth of 1894. Half pkts. of any of the above 50c. Please send money orders or registered letter. Cash with order. Address

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The finest strain of Pansies in the World.

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Catalogue free on application.

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Pansies Worth Raising.

THE KIND THAT SELL!!

NEW SEED, perfectly ripe.

One package, 1-8 of an ounce.....	$1.00
Five packages.....	4.00

Large quantities at special rates. Cash with order.

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EXTRA PANSY SEED.

MAMMOTH SUNBEAM STRAIN.

A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected; better seed plants this year than ever; receive very high praise from my customers; no finer strain offered anywhere; florists should sow of it.

Trade pkt., 500 seeds, 25c; 3 pkts. 60c; 6 pkts. $1.00. A pkt. of the new Monkey Face pansy with every $1 order.

JOHN F. RUPP, Shiremanstown, Pa.

Indianapolis.

Spring plant trade showed a decrease of 25 to 30% from that of last year. Average retail price of 4-inch geraniums was $1.25 a dozen. In view of the decrease of course trade was not as satisfactory as last year. Collections are generally slow.

The July meeting of the Florists' Club was held June 27, on account of the regular day falling on July 4. The Crown Hill Cemetery discussion took up considerable time; it was finally decided to appoint a committee, the same to draft a memorial to be presented to several prominent clergymen, requesting them to take up the matter. The committee was also instructed to see the cemetery trustees.

The picnic committee reported satisfactory arrangements, but also suggested that in place of a picnic a regular weekly bowling club should be arranged for. This proposition was voted down, and the committee authorized to go ahead with arrangements for the annual picnic, with instructions to hold the same on a week day. The committee decided to hold the picnic at Bellevue Club House July 16; all florists invited. Three new members were elected to the club.

Business was reported very quiet; flowers scarce and poor.

John G. Rathsam lost about 400 panes of 10x12 glass by hail June 21; considerable damage was done to shade trees all over the city and vicinity. Lightning struck the dwelling of John Bertermann, knocked off some shingles and weather boards, and passed down the steam pipes which fortunately reached nearly to the roof in the garret. The fall of rain for several days during the stormy season was tremendous, with but very little damage.

Anthony Wiegand returned from California a few days ago, just one train ahead of the strike.

Many shade trees are beginning to die all over the city; leakage of natural gas is supposed to be the cause.

A. Pahud is adding a new house 20x60. John Grande, a new florist at 322 Shelby street, is building two houses, one 18x115 and the other 18x60, with office, etc. Young & Sonnenschmidt are building a house 20x100 and another 12x100 with office, etc. John Fohl, formerly of Mapleton, Ind., has taken Martin Braendlein's place and Mr. B. is now located near Crown Hill Cemetery with two houses 12x60, office, etc., the place heated by steam. W. G. B.

DO YOU WANT Mr. Scott's seasonable hints for the year in book form, so that you can refer readily to his suggestions for any week in the year? You will find them in this form in our trade directory and reference book for 1894. Price $2.00.

Prices Lower Than Ever.

Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to $5 each, fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

For general Japanese stock apply to

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And other Oriental Specialties.

ONION SEED, PEAS, BEANS, ETC.

Write for special contract prices.

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ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.

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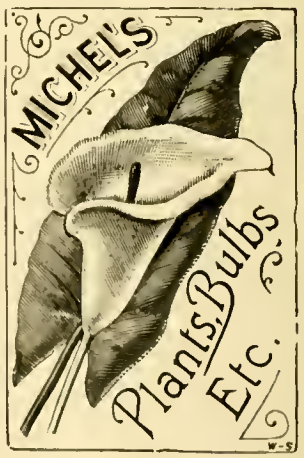
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150,000 of all the leading varieties.

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Latest Device for Stemming Cut Flowers without Toothpicks and Wire.

Will keep set pieces fresh longer, as flower stem is entered deep in the moist moss. Manufactured by the **Novelty Point Works** in 5 sizes, from ⅛ to ½ inch in diameter.

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SIZE No. 5 (largest), box of 250 points...32 cts.

For sale by all leading Wholesale Seedsmen and Dealers in Florists' Supplies. Samples of all five sizes for trial sent by mail, postpaid, on receipt of 10 cents. Address

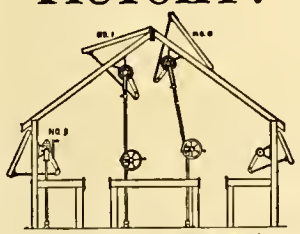
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The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

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Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston.

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FLORISTS' SUPPLIES ONLY,

50 N. 4th Street, PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,

Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

MEDAL AWARDED, World's Fair.

ERNST KAUFMANN & CO.,

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No. 113 North 4th Street,

Send for catalogue. PHILADELPHIA, PA.



USE **W. C. KRICK'S** Florists' Letters, Etc.

Medal Awarded at the World's Fair.

And Highest Award Wherever Exhibited.

These Letters and Designs are made of the best immortelles, wired on wood or metal frames, having holes drilled in them to insert toothpicks, by which they are fastened in the design. Give them a trial. You will find these goods to be superior to any in the market.

2-inch Letters, $2.50 per 100.
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W. C. KRICK, 1287 Broadway, Brooklyn, N.Y.
For sale by all Florists' Supply Dealers.

BE UP TO DATE,

And get the BEST. This is it.



The Champion Ventilating Apparatus.

CHEAP. DURABLE. EFFICIENT.

Circular tells the whole story. It is free.

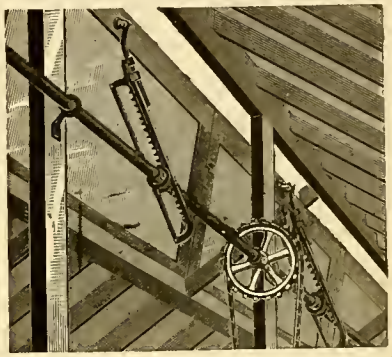
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GLASS. ROCK BOTTOM PRICES Send for Estimate. Satisfaction Guaranteed.
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We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

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LITTLE'S ANTIPEST.

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Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —

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This preparation Is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

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Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

St. Paul, Minn.

Despite the torrid wave, the unbroken drought and the summer dullness in general there is some call for cut flowers. I do not mean to infer that trade is booming, but for this season of the year it is up to or above the average.

Roses are fair, Kaiserin, Meteor and La France being cut in abundance. Carnations are nearly gone, though a few of inferior quality are still seen. Sweet peas are of fair quality, but not very abundant, owing to the drought. One of our florists is cutting some outdoor gladiolus, the earliest they have ever been seen here.

Roses are nearly all planted out, and judging from the number put out we shall be smothered with roses another season unless times improve.

Chrysanthemums are now receiving attention and are looking fine. L. L. May & Co. have a very fine display of them and will undoubtedly show the boys some fine blooms this fall. Mr. Murray, their practical "mum" grower, is keeping very mum and watching them closely. Other growers about town all have a fine stock and the city will be one mass of bloom by "mum" show time. By the way, brethren, when will the meeting for arrangements be held? Isn't it about time to organize?

Prices of cut flowers are—well prices are not in it. We get what we can and our neighbor does likewise.

The hall where the Republican state convention was held the past week was beautifully decorated with palms and other greens. FELIX.





Standard Flower Pots.

10 per cent. off for cash with order. Special discount on large orders. We carry a large stock on hand of good strong pots.

PRICE LIST OF STANDARD FLOWER POTS.

1½-inch pots	per 100	$ 3 (0)	6-inch pots,	per 100	$22 (0)		
2	"	"	3 25	7	"	"	35 (0)
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"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

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Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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OLD RELIABLE MAKE OF

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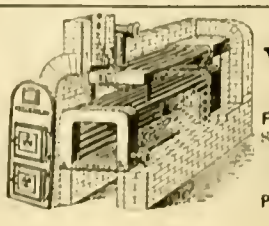
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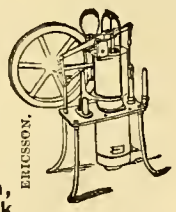
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For Your GREEN HOUSE, ROSE HOUSE, NURSERY,
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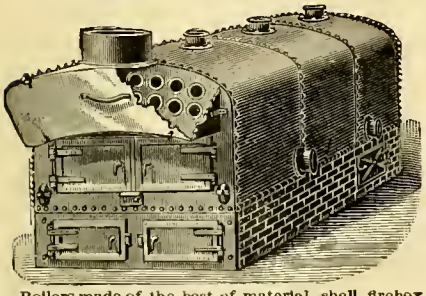
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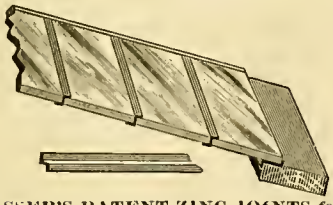
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Greenhouse Boiler,
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Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

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Automatic Ventilator.

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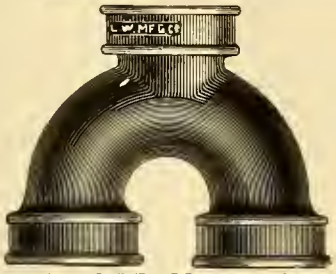
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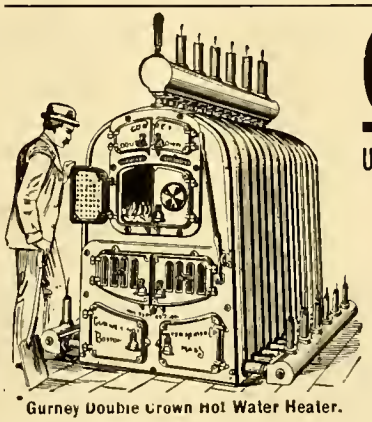
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Gurney Hot Water Heaters AND Steam Boilers.

UNEXCELLED FOR GREENHOUSE REQUIREMENTS.

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H. M. HOOKER COMPANY,
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NATURAL GAS MADE GLASS,
FOR GREENHOUSES.

Write for latest prices.



Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,
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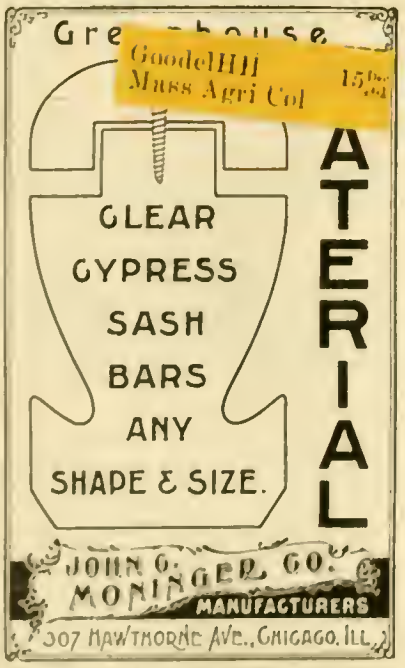
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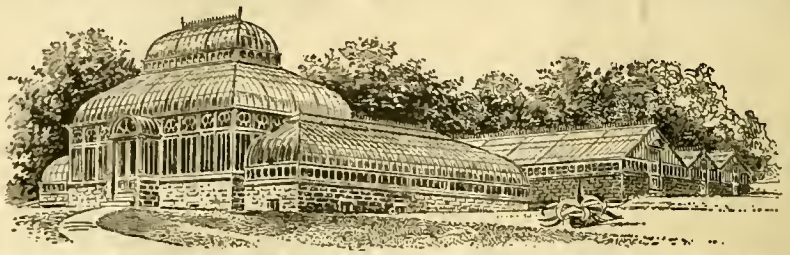
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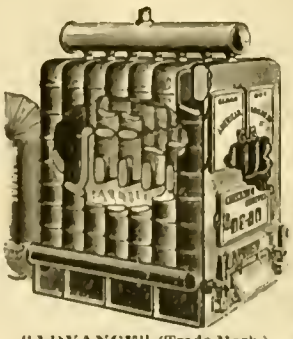
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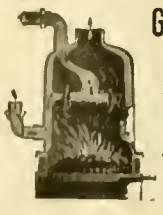
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CONVENTION NUMBER.—We shall issue our annual Convention Number August 16. Send copy for advs. as early as possible. No increase in rates.



Hybrid Teas.

Some growers think these require a very different treatment from ordinary tea roses. In my experience I have not found it so, at least not to any material extent; about the only difference I have ever found in growing them is they are more subject to black spot, and to avoid this as much as possible I advise planting them in a part of the house which will be more likely to dry off readily before night. There have been a great many remedies advocated for the prevention and cure of black spot, but so far as I have tried them I must admit that I have not yet derived much benefit from them. In this, as in all other diseases, I think prevention is better than cure, and certainly one of the best preventives that I have found is a dry, healthy atmosphere at night and never allow the temperature to get down low enough to cause a dew to settle on the leaves. This trouble often starts more early in the season than we think. During September we often get it quite cool towards morning, enough to cause a heavy dew to form on the foliage, while the temperature in the house may not actually fall below 60°; let this be repeated for three or four nights and this disease will certainly get considerable foothold. Under these circumstances a very little fire heat for four or five hours or from 1 or 2 o'clock in the morning till sunrise with some air on the house at the same time will prove one of the best preventives. I do not wish to be understood that this will entirely prevent it, as this disease is sometimes very troublesome even under the most careful cultivation, and should the roots get a slight check by any means it is almost sure to show itself at once, and what would appear the most strange about it is that extremes in either direction are equally sure to produce it. Let the plants get a little over dry at the roots or give them an overwatering so that the soil is somewhat sodden or stagnant and the effect will be almost identical, showing that this disease is very materially influenced by root action. There are other causes also which are quite a factor in this matter: insufficient food of the desired character is one of them, and here I have often thought the chemist could be of some use to us by investigating and giving the formula of what is required to give the plants the food necessary to its highest development, for surely the soils in many sections are deficient in some important elements of plant life. For this subject alone a genuine florists' experimental station, presided over by the right man, could do an infinite amount of good for every florist on this continent, and if such a thing could only be started and carried on successfully every florist in the country would be benefited and should certainly become liberal patrons toward its support.

When in Washington, D. C., in 1892, we tried to get a rose society started on a sound foundation, this was one of the subjects I had in mind and at that time I thought I could see my way clear to get it into such shape, but it fell through from lack of appreciation from certain quarters, though I hope to live long enough to see a rose society firmly established in this country and this subject for one taken in hand and thoroughly investigated, and if it can settle the question (as I have every reason to believe it can) of the absolute cause of this disease, we shall be well repaid for all the trouble or expense it may incur.

But, to return to the subject proper of this article—the growing of Hybrid Tea Roses—all of this class can be grown under exactly the same conditions as ordinary teas with the exception of Meteor, which requires a somewhat higher temperature, and as it is now time to plant all roses for the coming season's campaign where not already done lose no time in getting them planted. If in other seasons you have found certain varieties succeed better in particular positions follow it up by giving them as nearly the same again. There is no doubt that La France, for instance, will generally do better on a back bench than in any other position, that is where it should be grown, and the same adaptability of position may be noticed in other varieties.

If in the past your soil has been found to be of rather a heavy nature and black spot has been troublesome try the addition of considerable sand to the compost, for most of the hybrid teas undoubtedly like a rather sandy soil. But if your natural soil is quite suitable that is the thing to use. Light soils need much more pressing than heavy or clayey soil. Some prefer to beat the soil very firmly before planting and then use a trowel to dig holes for planting; this I think a mistake, making as it does considerable more labor in planting, and as this has to be done generally during the very hottest season the quickest way it can be done consistent with success seems to me the best.

We fill the benches level full of loose soil, mark out position for plants and then with the hand make the hole for and put the plant in position, pressing the soil very firmly around each plant in the hole as we go, leaving a slight hollow or dish-like form around each plant and the balance of the soil in the benches we prefer

to have loose as it is until the plants begin to get new roots fairly well started; this enables us to give the plants liberal waterings without making the balance of the soil sour, and in planting proper it can certainly be much quicker done than by digging holes with a trowel, etc. This is especially beneficial in soils inclined to be heavy.

After the plants get well established and the roots in active working through the new soil we then go over the whole surface of the benches and beat the soil very firmly and then rake it smooth and put on a light mulching.

When they are ready to begin producing flowers, according to the time planted or when the flowers are in demand, all the teas are treated the same way. During the summer and early fall give all the air possible according to the weather outside and leaving considerable air on all night, keeping the plants well syringed at least once a day, and in very hot weather twice with very liberal waterings at the roots, this insures healthy, sturdy growth and a good constitution to stand the strain of winter forcing. JOHN N. MAY.

Grubs Attacking Roses.

There has been some discussion through your columns regarding the character of the grub that sometimes destroys young rose plants in benches. One which had cut the roots of one of our roses and killed the plant we boxed up with soil and manure last August, and here it is. You will see that Jno. N. May was right.

I also enclose a worm which had eaten through the heart of a rose bud. We have found several such.

LOUIS E. MARQUISEE.

Syracuse, N. Y.

To make absolutely sure of the identity of the pests we submitted the specimens to Prof. Howard, Government Entomologist, who writes:

"The insects sent are, first, the common May beetle (Lachnosterna fusca), the larva of which is the ordinary white grub which feeds upon the roots of grass, strawberries and other plants. The worm which had eaten through the heart of a rose bud was badly shrivelled, but seems to be the rose tortricid (Cacoecia rosaceana). This insect, while normally a leaf roller, sometimes works upon buds in this way. I know of no good remedy for the latter insect, but white grubs in the soil may be destroyed by washing down diluted kerosene soap emulsion with plenty of water."

Funeral Wreaths of Summer Flowers.

At this season of the year the most appropriate subject to deal with seems to be the arrangement of funeral pieces composed of such varieties of bloom as is to be had in midsummer, for the reason that during the summer months the florist finds little else to do except work of such a nature. Although the quality of such stock as is at our command at present is not of the highest quality, yet we find quite a number of flowers in great profusion, such as work in admirably for our purpose. Take sweet peas for instance, a simple and inexpensive flower, yet one of the real gems to the maker-up if treated properly. The arrangement of this flower in the form of a wreath is probably what would give the best results, although by no means the only form that would show the flower to advantage, such as a cross or a pillow for instance, still we believe that the wreath, especially the crescent shape, is the ideal form for this flower.

There are quite a number of shades of this flower suitable for our purpose. White, of course, is always proper, but that shade of lavender represented by the variety Butterfly is perhaps the most popular of all. Then the pink and white varieties of such forms as Blanche Ferry or Nellie Jaynes are frequently called for, and then those tones of delicate pink varieties like Princess Beatrice, Crown Princess of Prussia, Apple Blossom, Mrs. Gladstone, and a number of others are suitable. Generally speaking, these flowers show to best advantage if arranged in separate colors, this applies particularly to all pink varieties; the only safe combination of these would be with white. In such sorts, however, as Blanche Ferry we have already a combination of pink and white which can not be improved upon. Only the clear pink varieties, therefore, would admit of this combination, but it is doubtful if the result might be considered an improvement. Butterfly is another variety that admits of no combination except that of white; but whenever we decide on making such a combination, which is often a necessity for want of sufficient quantity of any one variety, don't let us mix the colors indiscrimiaately.

Our first illustration shows a combination of Butterfly and white in wreath form of the crescent type. The arrangement is of the simplest and calls for no special comment, only be careful to avoid close bunching of the flowers in stemming. We don't mean by that that you should stem each stem separate on a pick. It saves time to wire three or four stems together, but have them of unequal length in order to allow of a loose arrangement. For a finish some of your customers may prefer to tie the wreath with a ribbon, the shade of which of course depends on the color of the flower.

Our second illustration is the same size and form of wreath as the first and is composed of a clump of Bridesmaid roses in the widest part, and white sweet peas for the rest. The arrangement speaks for itself and needs no explanation. The grouping can of course be varied; if pink or lavender sweet peas be used the roses should be white or light cream. Gypsophila, which is used as a fringe around the roses in this piece, is an old friend whose acquaintance, we are sorry to say, we have not cultivated very much of late years, for the reason that we so seldom meet him nowadays. This airy and graceful little flower is one of the most useful in an arrangement, particularly that of mixed flowers; it is not as much appreciated in this country as it deserves. In Europe, particularly Germany and France, this flower is deemed almost indispensable to the bouquet maker, and is therefore grown in large quantities.

Achillea is another very useful flower, and so is candytuft; even the common field daisy is not to be despised; mignonette is always useful, and pansies, either purple or blue, may be used advantageously. All these flowers in addition to a few roses (Mermets) are shown in our third plate. The photograph shows the combination of the different varieties fairly well, except the section of mignonette next to the roses on the left hand side. Such other summer flowers as hollyhock, aster, dahlias, etc. are not as well suited for such a style of arrangement as that we have been considering. These forms are better adapted for such designs as we shall attempt to illustrate later.

Miscellaneous Seasonable Hints.

You will scarcely have your chrysanthemums, roses, etc., planted and ready to take a breathing spell before the earliest bulbs arrive. Lilium Harrisii is delivered from several houses earlier this year I believe than ever. Unpack at once and if it is impossible to pot them right away put them in flats and cover with a little dry earth till you can get at them. Lilies, and for that matter all bulbs, are injured by remaining out of the ground any length of time, but lilies much more than tulips or hyacinths, so get them potted as soon as you possibly can. Early potting does not necessarily mean early flowering. You can retard them in several ways, if desired. For the largest bulbs (9 to 11 inches) a 7-inch pot, for 7 to 9 inches a 6-inch pot, and for 5 to 7 inches a 5-inch pot is about right. Still smaller bulbs can be grown in a 4-inch pot.

Everybody is allowed to change his mind; and sometimes it is a proof of wisdom. For two or three years I have grown small bulbs (5 to 7) in quantity for cutting and grown them in boxes about 18 inches square and 6 inches deep. I shall do so no more and find it better for the bulbs in every way to grow them singly in pots. You will get better results in every way. I must repeat that there is no better way to grow good lilies than to plant at once. Let the top of the bulb be even with the surface of the soil and the soil should be from 1 to 2 inches below top of pot. After a thorough watering stand the pots in a frame and then throw over them 2 inches of well rotted old hotbed manure. This will keep them from drying out daily in the hot sun, will save much labor and is better for the bulbs. When they are brought into the houses this loose manure can be shaken off and the pot then filled up with good compost. The plan above described is for the large Easter flowering bulbs. For smaller sizes that you intend to force and cut during winter you can pot in the usual way, but a slight covering of some mulch on them will help all round. The best lily soil is well rotted, light, turfy loam with a fourth of thoroughly decomposed manure of some kind, but not *fresh* of any kind. The half shell of the toothsome clam, concave side down, is perfection for drainage for lilies.

Roman hyacinths will soon be here. Get a few boxed at once. They are always very acceptable when they first come in. Another and larger planting can be made at end of August and the remainder can be planted end of September. Don't try to keep the bulbs out of the ground later than that or they will be injured. When boxed place them out of doors and after a very thorough watering cover with 3 or 4 inches of light soil, and don't let them suffer for want of water. In August and September, with the weather as it usually is, they want a small deluge every week. There has been a good deal of money lost the past few years in Romans. The price of bulbs with most people is still high enough, while the flowers sell for one-fourth what they did 10 years ago. For a man who grows for his own store, or retails, they are indispensable, but unless you have an ideal cold storage house of your own they are difficult to handle and have in good quality after February. In fact they don't pay after that date. The white miniature Dutch hyacinth takes their place nicely. It's a cheaper bulb, winters with much less trouble, stands any amount of freezing and comes in for Easter or late winter in good shape. Now please don't go and put your Romans,



WREATH OF SWEET PEAS.

FUNERAL WREATHS OF SUMMER FLOWERS.

narcissus, tulips, etc., into those brutal boxes that I still see even in establishments that have a reputation as big bulb growers. You see boxes 3 feet by 1 foot and 6 inches deep, another 2 feet 6 inches square. They think this is a saving because the groceryman at the corners says "take them along my boy." Get rid of the barbarous boxes and make your flats all one size. The words of even as small a man as myself should be heeded in this matter. I have more than once recommended the size I think best; it is 2 feet long, 12 inches broad, and 3 inches deep, made of 3-inch strips of ½-inch stuff, with the ends of 1-inch stuff. This box holds 50 Von Sion, 60 Yellow Prince tulips, or 72 La Reine.

Keep your show pelargoniums growing in a partially shaded house. They should now be making good growth which will give you cuttings later on, of which I will write later. It is a fine plant and has been much neglected for some years. The finer sorts such as Mme. Thibaut and Mrs R. Sandiford will pay well to grow for cut flowers.

Sow some pansy seed end of this month for winter blooming; don't sow a mixture, a good purple, a yellow and a white is what you want. A mixture is all right for spring sales but not for cutting.

You will be thinking how best to support your chrysanthemums and roses this fall and winter. A plan pursued by Harry Dale, and perhaps by many chrysanthemum growers, is to stretch a wire across the bench (No. 20 or 22 is large enough) and nail a little block on the side of the edge board to keep the wire above the soil. On the roof have a wire immediately above it, and from every plant tie up a common string from top to bottom. This is just as good as the best stake or expensive steel rod and a great deal better. Don't use the common white twine that grocers use. There is a brown string sold that is much cheaper, however, and will answer all purposes. When you get your crops cut, either mums in December or roses in May, you can take a scythe or sickle and chop them off top and bottom. The wire which was on the surface of the soil can be easily raised up and temporarily suspended from the roof while you are removing the bench, and if the bench is used for plants can be left there for an indefinite time. I am encroaching on other people's ground, but I have not before noticed this very important and simple way of supporting two important plants.

WM. SCOTT.



Carnation Notes.

In the FLORIST of June 28 is a photograph of a bunch of fifty Grace Wilder carnations; and in the text relative to them the writer says, "Carnations, if cut with plenty of buds and on long stems, look best set in a proper vase with no other addition than their own foliage." This is a point I tried to make a few years ago, that carnations should be cut with buds, and that their own foliage should be the only addition to them for vases or wherever they are used without adding other flowers. If we could get the public educated to use them in this manner I fully believe there would be an increase in the demand for carnations of at least twenty per cent. The only thing necessary to educate the public taste to this method of using them is for the retailers to present them to their customers in this shape and charge accordingly. The foliage could be grown in cheap houses and with out very much heat (which would make it all the better) and could be put on the market at a fair profit to the grower for fifty cents per hundred. If the retailer is getting say fifty cents per dozen for a certain carnation he could without any trouble get seventy-five cents by adding a dozen or fifteen sprays of foliage, and this would be giving him his average percentage of profit, and at the same time give his customer a much more satisfactory bunch than the way they are usually sold.

Although carnations are prettier with some buds, these are not an absolute necessity if there is plenty of foliage. The cry for the past few years has been for size, and one way to obtain size is to disbud them. These disbudded monsters on long stems, barren of buds and almost of foliage, are pitiful sights indeed to the true lover of flowers, but if their nakedness is screened by foliage they become a thing of beauty and a joy forever.

As most carnations are now cut with stems ranging from fifteen to twenty inches long we would have to look for correspondingly long foliage. Varieties of the Mrs. Ferdinand Mangold and Annie Pixley type would about fill the bill, as they make good long shoots before throwing out a bud. Grace Wilder and Portia both make good foliage for use where it need not be so long. After growing carnations for foliage for a season or two we would no doubt find varieties that would fill the bill exactly.

To some these may seem visionary ideas, but I would like to see the retail men try it as an experiment on a small scale, and there is no question that if it is called for the foliage will soon become a commercial commodity as well as the flowers, and competition would be quite as keen to have it in good salable shape.

ALBERT M. HERR.

Carnation Rust Experiments.

ED. AM. FLORIST:—The accompanying experiments were performed by me during the months of May and June in order to ascertain the approximate strength of the chemicals used that would prevent the germination of the uredospores of the carnation rust (Uromyces caryophillinus).

The work was performed as follows: A glass ring about ½ inch in depth and of about the same diameter was cemented to the glass slide; a few drops of water were placed in the cell thus formed, then to the cover glass was depended a drop of the solution, in which some spores had been mixed, then the cover glass was sealed to the cell by means of vaseline. The slide was then examined under the microscope to see that the mount was properly done, after which it was placed in a closed germinating pan, which was also kept moist. Examinations of the slides were made at different times during a period of from 12 to 24 hours. It was found that good healthy spores would germinate in water in the course of two hours. A great variation was found in

the germinating power of spores. Spores taken from good healthy plants were much more vigorous and would germinate in a stronger fungicide. To this fact is due some of the wide variations obtained in the experiments. In all cases where the strength is indicated by figures it means 1 part by weight, as, for instance, 1-100 would mean 1 pound of the chemical to 100 pounds of water.

Eau Celeste, or the formula recommended by you in the FLORIST, if figured down to the basis of 1-100, would be .035 lb. of CuSO4, or .035 grm. to 100 c. c. of water and the ammonia would be .25 c. c. (assuming a barrel of water to contain 50 gallons). You will readily see that even 1-500 was a much stronger solution than this and yet it was a failure, or 1-1000 is much stronger.

Bordeaux Mixture was made according to the standard formula 6lbCuSO4, 4lb lime and 22 gallons water.

⅔ strength CuSO4, 4lb lime and 33 gallons water.

½ strength CuSO4, 4lb lime and 44 gallons water.

Ammoniacal copper carbonate was made by taking an optional number of volumes of ammonia, strength 26° Beaumé, and reducing it seven times, i. e., to one volume ammonia, add six volumes of water. To this diluted ammonia was added an excess of copper carbonate; when the solution was thoroughly saturated with the copper it was poured off; it was then reduced fifteen times, i. e., 1 vol. saturated sol. to 14 vol. of water; ½ strength meant reducing it 1-29; ⅓ stronger meant reducing it 1-10.

Plants were sprayed with several of these chemical solutions in order to see if it would be injurious to them.

Iron sulphate 1-500, 2 plants sprayed. No injurious effects.

Lead acetate 1-500, 2 plants sprayed. No injurious effects.

Corrosive sublimate 1-500, 2 plants sprayed. No injurious effects.

Salt 1-500, 2 plants sprayed. No injurious effects.

Potassium sulphate 1-500, 2 plants sprayed. No injurious effects.

Potassium chromate 1-500, 2 plants sprayed. No injurious effects.

Potassium bi-chromate 1-500, 2 plants sprayed. No injurious effects.

Copper sulphate 1-500, 2 plants sprayed. No injurious effects.

WM. STUART.

Exp. Sta., Lafayette, Ind.

SPORE GERMINATION.

Chemicals Used.	Strength of Solution.	No. of Cultures.	Spores Killed.	Poor.	Medium	Good.	Value as a fungicide. Success, or Failure.
Copper Sulphate. (Cu So 4)	1-100	1					Success
	1-500	2					Success
	1-1000	7	5			2	Partial success
	1-2000	6	2			1	Failure
	1-3000	4	2			2	Failure
	1-4000	3	2			1	Doubtful success
	1-5000	3		2		1	Failure
	1-10000	1				1	Failure
Bordeaux Mixture	Standard	1					Success
	⅔ "	2	2				Success
	½ "	2		1	1		Failure
Ammoniacal Copper Carbonate (Del. Formula)	Del. Sol	8	3	3	1	1	Failure
	½ "	4	2		1	1	Failure
	⅓ stronger	6	3	3			Partial success
Eau Celeste (Am. Florist formula)	1-100	6	4	2			Partial success
	1-500	12	4	6	1	1	Failure
	1-1000	10	2	2	2	1	Failure
Potassium sulphide (K2S)	1-100	2	2				Success
	1-500	6	6				Success
	1-1000	8	3	1		1	Failure
	1-2000	6	2	2	2		Failure
	1-5000	2	1			1	Failure
	1-10000	2		1		1	Failure
Potassium Chromate (K2CrO4)	1-500	1	1				Success
	1-1000	6	3	3			Partial success
	1-2000	8	2	3	2	1	Failure
	1-3000	2			2		Failure
	1-5000	4			2		Failure
	1-10000	3		1		2	Failure
Potassium Bi-Chromate (K2Cr2O7)	1-500	1	1				Success
	1-1000	5	1	4			Partial success
	1-2000	7	1	5	1		Failure
	1-3000	3	1	2			Failure
	1-5000	3		2		1	Failure
	1-10000	1				1	Failure
Iron Sulphate (FeSO)	1-100	1	1				Success
	1-500	1	1				Success
	1-1000	2	2				Success
	1-2000	4	4				Success
	1-3000	3	1	1		1	Failure
	1-4000	2	1	1			Failure
	1-5000	1		1			Failure
Lead Acetate (Pb(C2H3O2)2)	1-500	4	4				Success
	1-1000	4		2		2	Failure
	1-2000	2				2	Failure
	1-5000	1				1	Failure
Corrosive Sublimate (HgCl2)	1-500	2	2				Success
	1-1000	4	4				Success
	1-3000	3		3			Partial success
	1-5000	8	4	1	1	2	Failure
	1-10000	6	2		2	2	Failure
Salt (Na Cl)	1-100	4	2		1	1	Failure
	1-500	3	1		1	1	Failure
	1-1000	3	1		2		Failure
	1-2000	2		1		1	Failure
	1-5000	2				2	Failure
Carbolic Acid	1-100	2	2				Success
	1-200	5	1	1	2	1	Failure
	1-300	2		1		1	Failure
	1-400	1			1		Failure
	1-500	1				1	Failure
	1-1000	1				1	Failure
	1-5000	1				1	Failure

The Trade Exhibit.

Since my last communication in this connection fifteen additional entries have been received, as follows:

J. C. Vaughan—plants, bulbs, etc.
C. H. Joosten—bulbs, fostilte, bellows.
Wm. Tricker & Co.—aquatics.
Storrs & Harrison—roses.
Siebrecht & Wadley—plants.
John N. May—plants.
Edwin Lonsdale—plants.
Major Bonaffon—patent fence.
L. B. Brague—ferns, etc.
S. A. Weller—jardinieres.
A. H. Hews & Co.—pottery.
Wisconsin Flower Exchange—plant tubs.
E. A. Ormsby—ventilating apparatus.
Thomas Woodason—patent bellows, sprayers, etc.
Herendeen M'f'g Co.—boilers, etc.

These with the 28 entries already reported make 43 in all, which is a gratifying proof of the continued popularity of the annual trade display. In St. Louis last season the total entries were only 34.

The space at this writing (July 21 '94) is now all taken with the exception of a few feet here and there, and this notwithstanding that some more space has been added by the removal of the athletic apparatus in the hall and by abandoning the idea of having a cross passage in the center. This latter plan would doubtless have been convenient, but had to go, owing to the pressure for space.

It has been decided to make the wide (8 feet) center table running the entire length of the hall 18 inches in height, this being deemed the best height for the proper display of palms, crotons and other decorative plants. All the other tables will be 2½ feet in height and 4 feet in width. The hall is well lighted from both sides and there will be no trouble about insufficient light anywhere.

For further information address the undersigned at 1025 Arch street, Philadelphia.

G. C. WATSON, Sup't Exhibition.

Are They First-Class Plants.

The inquiry we published with illustration in our issue of July 12 has brought out quite a number of replies. They agree so unanimously in classing the plants as culls that one is almost a repetition of the other. We will wait till the returns are all in and then record the number of votes. An amusing feature of the various letters is that the writer of nearly every one names a firm that he thinks the plants came from, having himself received just about such plants as we illustrated. And curiously the firm from which the plants did come has not yet been named; from this it would appear that there are more than one or two firms who have shipped plants that were unsatisfactory. We would advise all shippers to give a careful reading to the series of articles on packing plants that are now appearing in the FLORIST. We propose to so thoroughly cover the question of packing that none can plead ignorance of the methods of packing that will insure arrival of plants in good condition.

Coal Tar.

The advice of one of your correspondents in relation to the use of coal tar on the boards on greenhouse benches is rather amusing to some of us around here, who have been using it for years on all wood which comes in contact with the soil whether in the walls or benches, without having noticed any bad results. Of course we do not put it on heating pipes or on boards where it will come in contact with the heating pipes.

A little incident came under the writer's notice in regard to the use of coal tar on benches which may be interesting, and I believe goes to prove that it is not injurious to vegetation. A bench was constructed of wet pine boards and painted with coal tar; the tar had not dried when the soil was put on; the bed was planted with parsley which grew luxuriantly all winter, but the consumers of the parsley complained that it tasted of coal tar, which was not pleasant, certainly, but had the boards been dry and the tar allowed to harden before the soil was put on the above result would not have followed. The only objection we see to its use is the trouble of applying it, and for



WREATH OF ROSES AND SWEET PEAS.

FUNERAL WREATHS OF SUMMER FLOWERS.

that reason refuse petroleum is gradually taking its place, being cleaner to handle and perhaps just as good. BEAVER.

Montreal.

Philadelphia.

As the time of the convention approaches renewed activity is noticed among the various committees; frequent conferences are being held, and everything points to a successful meeting. The distance to Atlantic City is the cause of some inconvenience, as when a committee man returns from a visit in quest of information he is invariably floored by almost the first question put at him by one of his fellows, and another visit is made necessary.

While there are no botanic gardens or beautiful public parks to interest the visitor to Atlantic City, there is that broad expanse of ocean with its crested waves always breaking on the shore, making an ever moving picture that even the oldest resident will ofttimes stop to admire. Those who can find no pleasure in any color but that of the ever restful green of the grass and trees of their favorite parks will surely be pleased with the beautiful blue of old ocean, which is only broken by the snow white crests which are at all times appearing and disappearing on its surface, or by the mirrored reflection of the fleecy clouds above.

On the land side of the city may be seen the broadest expanse of lawn to be viewed anywhere in this country; it stretches for miles, interspersed with small streams, miniature lakes and broad rivers or thoroughfares, as they are called here. In the spring and early summer this expanse is a beautiful green, like a sheet of velvety well kept lawn, but in the early autumn a change takes place and large discolorations give the meadows, as they are known here, the appearance of a brilliant sunset sky; this fancy touch of nature is somewhat hard on the lovers of the restful green, but it is very beautiful and attracts the attention and admiration of those who are fortunate enough to see it. Between this meadow and the ocean's beach upon which the city is built there is a river or thoroughfare which extends from the bay which empties into the ocean just north of the city, a distance of about eight miles to another bay. This body of water furnishes excellent sailing for parties who do not desire to go outside and risk getting seasick. There is also at times very good fishing in these inside channels. One of the chief amusements for the ladies is to go crabbing in these waters. The boat is anchored in a shallow place and a piece of meat or fish tied and weighted is thrown over the side; this is drawn up slowly when a tug is felt, and sometimes as many as two or three crabs are seen to be clinging to the bait. The crab net soon lands these in the boat and the bait is again dropped. The man with the net is a busy fellow on an excursion of this kind, as he keeps going from one part of the boat to another in answer to "Oh, I've got one, hurry up, he'll get away!" and sometimes all speaking at once, and then when emptying the net the crab happens to fall outside the box and goes scurrying among the fair fishers it is worse than a mouse, if anything could be more frightful.

To those who are not afraid of seasickness, the ocean is their proper place: here one is almost always sure to find good fishing, and if the blue fish are running he has rare sport indeed. Embarking at the inlet or mouth of the bay in one of the pretty little yachts always at the pier he is soon over the bar (sand) and on the bounding deep. A fleet of these fishing boats with their beautiful sails all set and bending to the breeze is indeed a grand sight.

Of course the principal attraction is the bathing. About ten o'clock in the morning the bathers commence to don their suits, and to those who have never seen men and women in their bathing suits the sight is a very interesting one. There is nothing immodest in the appearance of the average bather, yet their suits are so arranged as to afford a free and perfect movement while in the water. Some ladies who do not care to bathe like their appearance so well in bathing costume that they change their garments during bathing hours and parade up and down the beach and lay around on the sand sunning themselves, and seem to enjoy this hugely.

There are a number of large establishments with retiring rooms where bathing suits can be hired, 25 cents being the usual charge. The regular bathers have suits of their own, which are taken care of by the bath house where they rent their rooms. During the bathing hours there are boats just beyond where it is safe for the bathers to venture, warning the reckless ones and ready in case anyone's strength gives out to carry them safely to land. While there have been cases of drowning at this beach, it is very seldom that persons who take ordinary precautions are in the least danger. Intoxicated individuals or those who on account of their swimming abilities go into deep water and then get frightened are generally the sufferers. Bathing is a most exhilarating pleasure; thousands of people are to be seen in the surf at one time and thousands are on the beach looking on. By one o'clock most of the throng adjourn to their hotels for dinner.

The board walk, which extends the entire length of the ocean front and is about 20 feet wide, is next the scene of activity, and from four o'clock until long after dusk has set in this promenade is crowded with all the youth and beauty of the city; the crowds flock here to see and be seen. On one side of the promenade is the ocean and the pier, which extending out some 1000 feet, is a delightful place to while away a few hours. On this is also a large pavilion, with a fine orchestra, where those who so desire can trip the light fantastic. The main avenues, which run parallel to the ocean, are happily named; they are called Pacific, Atlantic, Arctic and Baltic, and the cross streets are named after the states of the Union.

Electric cars on Atlantic avenue run the full length of the city from the inlet at the upper end to the railroad excursion house at the lower end, for one 5-cent fare, and connection is here made with another electric line to Longport, some 7 miles further down the beach, for 5 cents more. This road is built as near the ocean as possible; the cars are all open, making the ride a delightful one.

All these attractions are to be seen by the average visitor in common with the members of the S. A. F., but when the advantages to be gained from the convention are considered what members are there who will go away saying they were not glad they came? And there has not been a word said about the bowling match; well, there will be something to say about this event next week, in fact we hope all about it. By the way, the "Bard" has been a bit off in his rolling recently, and the picture in last week's issue accounts for it; it is an excellent

likeness, and his whole manner illustrates most forcibly the energy he puts into everything he does, especially poetry. If we might suggest, when the "ode" is published would it not be well to have it illustrated?

There was a match at the alleys one night the past week which afforded some people a great deal of gratification. The "scrub" is a fairly good team, but then they can't keep up the pace, for they are only "scrubs." K.

Toronto.

The Electoral District Society's annual flower show held on the 18th, 19th and 20th inst. was as regards quantity and quality of plants the best that has yet been held. With such a lot of well grown plants of all sizes some grand effects might have been made if only a little taste had been displayed, but the same old style we have been accustomed to for ages past prevailed and no one appeared to have a soul above a clump or two of palms in the middle of the hall and a border of stove and greenhouse plants straight up and down each side, stood as called out in schedule order. I will acknowledge that it is a difficult job to do so much work in so short a time, but there are always willing helpers on hand and if only the superintendent had his plans well laid out beforehand and stuck to them the chaos would soon be reduced to order. As things are now exhibitors and their helpers are waiting about doing nothing half the time. One man I know of—there may have been more—had his exhibit at the hall at 8 a. m. and could not put it into position until 3:30 p. m. Surely in these enlightened days some better way of managing these things could be devised and carried out. It is not a pleasant duty for me to find fault but in face of general complaints on all sides I consider it right and in the best interest of all concerned that the matter should be ventilated.

After this little "divarshun" everything will be lovely and smooth sailing.

The judges of plants were Messrs. Wm. Scott and Wm. Belsey of Buffalo, and of cut flowers and designs Messrs. F. G. Foster, of Hamilton, and Professor Cowell, of Buffalo, and I am bound to say that this "*two* judge plan" appeared to work most beautifully all round, and I heard no remarks that could be twisted into the shape of a genuine kick. Of course in design work there is always room for difference of opinion and taste, but even there it was hardly possible for the judges to do otherwise than they did. And really I think some of this work was the best I have seen in this city, a large star on a base by Messrs. Tidy & Son being almost if not quite perfection in the art. This firm took firsts for three other designs and a bouquet of roses all put up in the best style, and yet strange to say I saw another bouquet of yellow and red roses made by this same firm tied up with a broad *blue* ribbon.

Dinner table decoration did not come out well, the first prize going to a centerpiece of Meteor roses and allamanda with the et ceteras—altogether too gaudy. The only other did not come up to schedule specifications and was ruled out, although in better taste.

Stove and greenhouse plants, ferns and palms is where Toronto comes out strong. The principal exhibitors were John Chambers, Exhibition Park; Wm. Houston, Central Prison; Geo. Reeves, Reservoir Park; Joe Graham, The Asylum; A. Macpherson, gardener to Col. Sweney; R. Marshall, gardener to Sir Casimir Gzowski; Manton Bros., Eglinton; Jno. Cotterill, Deer Park; W. J. Laing, Huron street; Mr. Chambers taking the lion's share of first prizes and Mr. Houston coming next. A big specimen of Maranta zebrina grown by Mr. Chambers was the largest, best grown and marked plant I ever saw; his fancy caladiums were also very fine, but placed in a very bad position; in fact all his plants exhibited this year were in the very pink of condition and reflect great credit on the man who cared for them, Mr. Fred Bromham. Mr. Houston's tree fern, Dicksonia antarctica, which was from the Australian exhibit at the World's Fair last year, was a great attraction; it has an 8 foot stem and a fine healthy head of fronds. His Sabal Andersoni palm which figured prominently in the Ontario exhibit at the Fair was also in evidence, but as it has reached the glass in the house where it is at home some of the leaves are slightly damaged, so that it had to take a second place. Many other old World's Fair friends were also to be seen. A specimen Bougainvillea speciosa about six feet high and five feet through in a 2-gallon pot, covered with bloom, was shown by Mr. Geo. Vair not for competition and was quite a feature.

The cut flower exhibit was very large and showy and the tables were always well patronized, the exhibits of sweet peas being specially attractive and beautiful. Mr. Scott brought over a magnificent lot of American Beauty roses and took a first prize with them.

The attendance was less than usual the first two days, owing probably to the extreme heat and counter attractions. Two days have formerly been enough but an extra day was decided on this year.

Mr. Jos. Spring, formerly of Toronto, now over the palm house at Schenley Park, Pittsburg, was a visitor and was warmly welcomed by the boys.

About 4,000 Baptists are in convention here now from all over the continent.

A spray of Cereus triangularis with four blooms close together on the one stem was a beautiful sight one night last week. E.

New York.

The long drought and torrid weather were checked, permanently it is hoped, by the coming of the welcome rain on Saturday afternoon, July 21. There was a steady downpour of water for a couple of hours, and a storm was never more welcome. The temperature, which had been holding up in the nineties for several days, took a sudden tumble, and has been behaving rationally ever since. The effect of the dry season on outdoor vegetation has been generally severe. Carnations, however, in the field seemed to revel in it, and reports from various directions show that carnations have never looked better at this date than they do this season, many growers asserting that the plants of some varieties are already as large as they were at the time they were taken into the houses last fall.

There is very little being done in the cut flower trade. For American Beauty, Meteor and the large white roses there is a fair demand, with prospects of increase, but for all other roses and all other stock there is no outlet at present. Pink roses are particularly slow. The only exception to this rule is Testout, which when good seems to find a fair market. But there are but few growers who are getting it good, and "when it is bad it is horrid." American Beauty seems to be the great summer favorite. That "it's an ill wind that blows nobody good" is well exemplified by the orders for Beauty which are beginning to come in from Newport, where the hail storm put a temporary quietus on the rose crop.

There is entirely too much stock being grown at present for the summer consumption. Five years ago there was not as much stock sent to this market in a whole week as comes in one day now. To show this it is only necessary to mention that on one day (July 21) there came to one firm (Burns & Raynor) no less than 22,650 roses and 8,660 bunches of sweet peas, enough to supply three or four cities it would seem. Sweet peas are despised and rejected even by the Greeks, who will not take them for a gift, hardly. Fifty to sixty cents per hundred bunches is about the best price they will bring, and there are twenty-five sprays in a bunch as a rule.

Ernst Asmus is one of the few growers who can and do grow and handle Testout so as to make it a desirable summer rose. He is very successful with it, and regards it as one of the best. His plants are full of buds with long and strong stems. His houses are all planted and ready for the coming season. Beauty, Testout and Meteor are the only varieties of which he has planted an increased stock. The beds which he prepared with so much labor and expense last year, with bottom heat and foundation of broken stone, have all been discarded and their place taken by regulation benches, to which Mr. Asmus proposes to confine himself in the future.

There is rejoicing in two of the leading retail stores just now. Thorley's cashier, Mr. Brown, found a pair of twins waiting to greet him when he went home the other day, and "Butler's boy" Joe of the second generation has arrived and settled down to business.

John A. Scollay has just completed and set up the first new boiler under his new patent. A new idea in hot water circulation has been introduced, which the manufacturers claim will prove a great advantage in greenhouse heating.

Burns & Raynor have added an immense safe to their office equipment as a proof of their faith in the future of the commission business.

Jas. Hart is giving his establishment a thorough renovating.

Chicago.

The rumors circulated the early part of the week regarding some impending failures had a most depressing effect on the market. We are sorry to say that these rumors were later proved correct by the suspension of two well known establishments, namely that of P. J. Hauswirth the middle of the week, and of J. T. Anthony, who made an assignment on Saturday last. We hope that the embarrassment of these two houses is only temporary, and that matters may be arranged for resumption at an early date.

Still there is nothing sufficiently alarming in the present state of affairs to call for heroic measures. The, we hope, temporary suspension of the last firm has positively no bearing on the wholesale trade, since the relation of this house towards the wholesale men was not that of a debtor, but on the contrary a creditor. Nevertheless wholesale men are extremely careful as regards the extension of credits, and in fact most transactions now are made on a cash basis.

The retail men on the other hand have been extremely conservative buyers for weeks past, and show no inclination to



WREATH OF MIXED SUMMER FLOWERS.

FUNERAL WREATHS OF SUMMER FLOWERS.

incur obligations. Few houses carry more than one or two hundred roses at most in stock. Under the present condition of trade this seems to be the wisest plan, but it doesn't buoy up the market and as a consequence things are exceedingly flat.

But even in the midst of the dullest season there is always a feeling of hopefulness which keeps the trade from total collapse. Just now everybody is looking forward towards fall and a consequent revival of business.

As a sign that not every one connected with the business takes a gloomy view of the situation we might note that such men as Bassett & Washburn and a number of others which we shall mention later have made extensive improvements in and additions to their establishments. This firm has added ten more houses to their already extensive plant. These houses were built early this spring and are devoted to roses. All the houses are 20 feet wide and about one-half are 125 feet long and the rest 170 feet. In addition to the above seven more houses will be built this summer. This last addition is intended for the growing of summer roses next season. With these houses complete this establishment will figure up the respectable total of 200,000 square feet of glass, devoted almost exclusively to rose growing.

Mr. Phil Schuetz will soon build at Ravenswood a range of five houses, each 125 feet long, for vegetable growing. The plant will contain 12,000 feet of glass.

Mr. W. L. Morris of DesMoines, Ia., was in the city last Monday and Tuesday.

Buffalo.

If the business hasn't improved the weather has, and the torrid spell has broken. We have been better off than some cities, for we have had a good rain just about the time we were ready to grumble. There is little doing except for departed friends. The untimely death of our late postmaster called for some elaborate pieces of floral work last week.

Lilium auratum and L. lancifolium in variety are getting plentiful, and very useful they are, and up to date none going to waste. There are still some fine carnations coming in from Corfu, Lancaster, and Hamburg. The variety Wm. Scott is easily the best of them, and has proved to be not only an early bloomer but continuous. A bench of it at Corfu holding only 375 plants has flowered from October 1 up to date. When last the writer saw it, about July 11, the bench was a sight. Plants as green as at Christmas, flowers 2½ inches across, with stems 30 inches long, and standing up as thick and stiff as a field of rye, and so it has been since it was planted. I have no interest in extolling the good qualities of this wonderful variety beyond letting my brethren know of them, for comparatively few grew it this past season. Fifty of them were sent to the Toronto flower show the past week to compete for a prize, and there was nothing near it, and they grow good flowers in that neighborhood too. Anyone who will persist in still growing Grace Wilder the next season must do so out of prejudice or ignorance.

There was a mixed delegation of Buffalonians over to see the mid-summer show in the beautiful city of Toronto. They comprised Mr. and Mrs. C. F. Christenson and several lady friends, Prof. Cowell, Wm. Belsey and W. S. In fine plants the show was most excellent. Ferns, palms and general stove and greenhouse plants especially. The display of fruit though not large, was fine. In designs and cut flowers the exhibits were scarcely up to former years. But if there were no flower show the ride across the placid bosom of Ontorio and the hearty welcome of the Toronto men and its concomitants are worth far more than the journey costs. We were Vair-ry sorry to leave them, but business called us home.

Mr. Samuel Burns, manager of the Thomas W. Weathered's Sons firm was here last week; we were greatly pleased with his exposition of now to heat a greenhouse, and believe he knows how, and in his informal talk he makes you think you are attending a Scotch picnic.

The Niagara Hotel has again changed gardeners. They are building six or seven fine houses. Lord & Burnham are putting them up, which guarantees they will be "about so." Mr. Lewis has had fourteen gardeners in eight years, and if he had Sir Joseph Paxton he would have been pronounced "incompetent" after a few months. A Mr. Fitzpatrick from the east is the latest incumbent, and we will give him the usual time, about six months. We wish him better luck, and trust he may have it, but, 'tis hoping against fate.

W. S.

Baltimore.

There was such a slim attendance at the last club meeting that a motion to meet only once a month until October met with no opposition whatever. The whole character of the meeting was rather listless, and no one seemed to care to enter into a debate of any kind. The nuptials of Mr. Thos. Patterson and Miss Vanzant were discussed, and all united in wishing them a happy and prosperous future. The announcement of a similar occurrence in the near future near Belair and North avenues excited some surprise, as the groom in prospective, from some unknown reason, was not looked upon as a candidate for hymeneal honors.

Business is very slack, and perhaps the boys have not enough to do to keep them out of mischief, hence these breaks in the ranks of the bachelors.

Mr. C. G. Hahn, of 1345 South Charles street and North Eutaw street, is erecting greenhouses at Embla Park.

Mr. M. A. Hantske has leased several lots near Govanstown and will remove his entire business from Hampden shortly.

Mr. Chas. Feast has been taken into the firm of Sam'l Feast & Sons as partner.

Sales of plants are not, and the sales of cut flowers that are, are very few and far between, to say nothing of the prices, which are very low.

As the club has taken no action to secure rates to Atlantic City a number of the members are working up a little excursion of their own.

Mr. E. A. Seidewitz has moved to No. 36 W. Lexington street, a few doors east of his old stand.

There seems a hopeless difference of opinion on the spring plant trade, one member of the club claiming it was better than last year. The majority hold a different view though, and some even put the falling off as high as 20 or 25 per cent, which is doubtless an extravagant figure, as 10 per cent would mean a very serious reduction in one's gross sales.

There are rumors about already of a rival chrysanthemum show again this fall.

MACK.

Sweet Peas Under Glass.

We present herewith engravings from two photographs sent us by Mr. Fritz Bahr, of Ardsley, N. Y. Regarding the photographs Mr. Bahr writes:

"The first picture represents a day's shipment of 1,800 cut blooms of Blanche Ferry cut from a bench 8x60. The second picture shows a bunch ready for market. The seeds from which these plants were grown was planted on the 6th to the 9th of October, 1893, in 3-inch pots, placing about three to four seeds in a pot. The pots were kept in a deep cold frame until December 10, when the little plants were planted out in benches, three inches apart in rows and eighteen inches between rows. The first flowers were cut April 2, and from that date they kept on blooming until the first ones from the outside were ready to be cut. I gave the new sweet pea Emily Henderson a trial inside but cannot see any difference between that kind and the Queen of England. Butterfly does very well for forcing, but for all round work I should say that Blanche Ferry beats them all."



BUNCH OF BLANCHE FERRY SWEET PEAS.

Boston.

This part of the country is experiencing the most severe drought on record. The entire rainfall since June 1 would not make more than one good shower altogether, and all outdoor vegetation is suffering greatly. Many large trees are dropping their leaves and the foliage on others is shrivelled up on the stems, while the grass everywhere is as brown as it can be. Unless a change comes very soon the loss on trees, shrubs and fruit will be heavy.

The extreme dullness heretofore noted in the flower business still continues. While the quantity of stock coming in is very small it is still far more than the market requires. It is kept in the refrigerator for a while and then much of it goes to the dump. A few asters are beginning to come in, but with an abundance of fine carnations in the market there is but little demand for them.

Mr. Warren Ewell and family are sojourning for a brief period at "The Breakers," Mr. Ed. Hatch's cottage by the sea at Scituate. With characteristic generosity Mr. Ewell invited a number of his florist friends with their wives to spend a day with him. The occasion was in all respects commensurate with Boston's reputation for such jollifications. Everybody agrees that Warren "knows how to do it."

Miss M. S. Newman, formerly of Boston, but now of St. Louis, is here for a few week's vacation, accompanied by Miss Armstrong, daughter of Luther Armstrong of St. Louis. This is Miss Armstrong's first visit to the Hub, and she is evidently enjoying the delicious experience to the fullest extent.

Another case of first experience was that of Mr. John Raynor and wife of New York, who honored us with a one day's visit on July 19. John promises to stay longer next time.

Flatbush, Long Island.

With the thermometer ranging from 97° to 100° in the shade, the ground parched up and mosquitos abundant and voracious, the lot of the Flatbush grower has not been of the pleasantest description recently, and his regular hourly task of hunting the goats off his preserves has been performed with less than usual amiability. In spite of these drawbacks, however, the Flatbush boys have found time and inclination to make extensive preparations to put a bowling team into the field, which it is expected will be able to give the contestants at Atlantic City a shaking up which will not be forgotten.

Mr. P. Bruno Meissner has gone with his family to the Catskills, and it is pleasant to know that his health is rapidly improving. Mr. Gus Bergmann has just returned from the same resort. This gentleman did not take his family with him. Flower business being dull he is temporarily interested in saddle horses.

J. A. Sedam, formerly engaged in forcing vegetables, has joined the ranks of the flower growers, and his houses will hereafter be devoted to the cultivation of roses, carnations and violets. His soil is is said to be the finest in Flatbush; certainly finer carnations were never seen in the field than his are today. An electric pump with a capacity of 1200 gallons per hour supplies water for this establishment.

Dailledouze Bros. found their yellow carnation Baron Rothschild (Bouton d' Or) exceedingly difficult to propagate at the end of the season, and were unable to fill a large part of the late orders which came in for rooted cuttings. This variety has been noted as a slow propagator before.

The only greenhouse building in Flatbush this season is being done by Dailledouze Bros. and Wocker Bros., they each having rebuilt one house.

Geo Bennett has between 30,000 and 40,000 fine carnations in the field.

St. Louis.

Everything remains quiet, there being nothing outside of funeral work being



A DAY'S CUT OF SWEET PEAS FROM A BENCH 8X60.

done, and as a result only white and light flowers are called for, and that in very limited quantities.

A. Y. Ellison, during the absence of his father in the east, has given the store an overhauling and has everything re-arranged in excellent shape for the coming season. He reports that the largest order heard of for some time was one filled by Mr. Alex. Waldbart recently. The committee appointed by the Bowling Club have purchased six new balls and will have them on hand for the bowling contest at the Highlands. The picnic to be held there on the 25th from present indications promises to be a most successful affair. The prizes are as follows: Hat, value $3.50; gold scarf pin, croquet set, cane, gold link cuff buttons, 2 pocket knives, league ball and bat, silver cake stand, fan, and for the bowling contest—highest individual score, gold watch chain; highest average, silk umbrella; lowest score, pair silver buckle garters. R. F. T.

Pittsfield, Mass.

The regular meeting of the Berkshire County Gardeners' and Florists' Club was held on Thursday evening, July 12, and was well attended. Considerable business was transacted; the constitution and by-laws having been revised and altered, were approved by the club. Two new members were elected, and two new names were proposed.

A letter was read from the Lenox Horticultural Society inviting the members of the club to Lenox on Saturday evening, July 21, to help them celebrate the occupancy of their new hall, and to have a good social time generally. The invitation was accepted by a hearty vote of thanks to the Lenox Society for their kind invitation.

Two of our promising young members, Mr. Gordon McArthur and Mr. Ernest Bennett gave the club a pleasant surprise by providing a very substantial lunch, and good cigars in abundance; besides this Mr. McArthur amused the members by reading a very humorous letter from his cousin in Ireland. Considering what dry sticks we are here as a general thing, it is supremely funny to witness how ridiculously laughable we become when touched in the right spot.

Vice-President White gave a very interesting talk on the old fashioned way of growing chrysanthemums and the method of renewing and replenishing the English conservatories with a constant show of seasonable flowering plants. A hearty vote of thanks was accorded Mr. McArthur and Mr. Bennett for their entertainment. W. M. EDWARDS, Sec'y.

Cleveland.

Some of the growers will begin housing their carnations next week, which are looking very fine this early in the season, especially Daybreak, which takes the lead in sturdiness and rapid growth. All varieties are promising and the outlook for a good crop of flowers in the early fall is encouraging. Last year nearly all the florists in this section were behind hand with their carnations, in consequence the first good crop of bloom was delayed till the middle of December.

The first shipments of Harrisii has been received some time ago and planted. This is much earlier than usual, and the chances are that all of us will be well supplied with lilies next Christmas, and prices take quite a tumble. Last year there was only one or two growers who were fortunate enough to have Harrisii during the holidays, the result was the wholesale price was fixed at $20 per hundred and counting every small green bud at that. With one voice every florist declared he would have Harrisii next Christmas, and so they will.

At the Edwards–Otis wedding recently a neat house decoration was done with plants of adiantum, the walls and mantels in places being banked from floor to ceiling, relieved in places with bunches of white Japan lilies. The effect was cool and pleasing for a mid-summer wedding.

In the trades display in the procession on the Fourth the florists of the city were in line with a large float highly decorated with plants and cut flowers representing floriculture. L. F. D.

Kansas City, Mo.

Mr. G. M. Kellogg of Pleasant Hill has just completed a new range of houses of which two houses 19x100 are devoted to Beauties, one 19x100 to Brides and Bridesmaids, one of same size to Daybreak carnations, three 10x100 to violets, two 10x100 to chrysanthemums, and one of same size to hybrids. The old range consists of 12 houses of roses, one of carnations, one of smilax, one of palms and ferns and several small houses for forcing bulbs. Mr. Kellogg heats by steam, using four boilers, of which two are 40 and two 30 horse power. Including his new range he now has a total of about 60,000 feet of glass and has been in the business only five years. Mr. Kellogg is also in the ice and vegetable business very extensively, besides owning and operating a large canning factory. His next move, he says, is to have about five acres of bottom land made into a large pond, and stock it with fish, so that he can invite his friends to a little fishing. He also says that he is going to Atlantic City to have a good time, as are also some of the Kansas City boys.

S. MURRAY.

Coming Exhibitions.

ATLANTIC CITY, N. J.—Trade exhibition Society of American Florists. G. C. Watson, Sup't of exhibition. 1025 Arch St., Philadelphia, Pa.

LENOX, MASS., Sept. 4-6. Annual exhibition Lenox Hort. Society. A. H. Wingett, Sec'y.

BOSTON, Sept. 5-6. Annual exhibition of plants and flowers Mass. Hort. Society.

CHICAGO, Nov. 3-11. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.

NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex MacLellan, Sec'y, Ruggles Ave.

BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.

PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.

ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.

INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.

PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L.B. 375, So. Denver, Colo.

PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.

MONTREAL, Nov. 12-14. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.

BALTIMORE, Nov. 12-17. Chrysanthemum show Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.

WORCESTER, MASS., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.

TORONTO, ONT., Nov. ——. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.

SPRINGFIELD, MASS., Nov. ——. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 John St.

MILWAUKEE, WIS., Nov. ——. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.

HAMILTON, ONT., Nov. ——. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.

[Secretaries will confer a favor by supplying dates as soon as decided upon. We shall be glad to know of any further shows decided upon and not included in our list, even if exact date is not yet determined.]

News Notes.

OCALA, FLA.—Mr. P. J. Hjort, the florist, will soon remove to Thomasville, Ga.

WILLIMANTIC, CONN.—J. C. Bill is building a new house, 100 feet long, on Cottage Place.

WINCHENDON, MASS.—James Sutherland, Jr., is making extensive additions to his greenhouses.

PITTSBURG.—A. M. and J. B. Murdoch are building two 7-foot lean-to additions to one of their 150-foot houses.

CHAMPAIGN, ILL.—On the 9th inst. Mr. and Mrs. Thos. Franks celebrated the 25th anniversary of their marriage.

DES MOINES, IA.—We have had no real good rain since April and the country is all dried up. Crops are seriously injured.

NEWPORT, R. I.—In last issue the loss of M. Butler & Son by hail should have been printed 1,500 lights of glass and not 15,000.

MONT CLAIR, N. J.—Edmund Williams, the well known horticulturist and president of the N. J. State Horticultural Society died July 12, aged 64 years.

QUINCY, ILL.—An effort is being made to secure the passage through the council of an appropriation of $5,000 for the creation of a park for the south side.

Hotels at Atlantic City, N. J.

The committee have obtained from the United States, the largest hotel, a special rate of $2.50 per day for each person where two or more occupy one room, and $3.00 a day with one person in a room, and a guarantee that they can accommodate 400 guests. From at least one-half the rooms there is an ocean view, and broad piazzas surround the hotel, from which can be seen an ever moving panorama. There are also many other hotels and cottages who have promised the committee they will make room for the delegates, which list, with prices, is given below.

NAME.	PROPRIETOR.	SITUATION.	CAPACITY.	RATES PER WEEK.
Albemarle,	C. E. Cope,	Cor. Virginia & Pacific Aves.	150	$8.00 to $14.00
Amole,	Mrs. S. C. Amole,	21 South, South Carolina Ave.	40	8.00 to 12.00
Ardmore,	Mrs. Story,	166 South, Virginia Ave.	125	8.00 to 12.00
Baltimore Villa,	Mrs. Hallahan,	120 South, Tennessee Ave.	40	8.00 to 12.00
Belleview,	Mrs. McClure,	Ocean End New Jersey Ave.	100	10.00 to 15.00
Brevoort,	Mr. Norris,	18 South, South Carolina Ave.	60	8.00 to 12.00
By-the-Sea,	"	Cor. Mass. & Pacific Ave.	50	8.00 to 12.00
Carlyle,	Mrs. Hotine,	102 South, So. Carolina Ave.	150	8.00 to 12.00
Clifton,	Mrs. Cope,	Cor. Atlantic & Conn. Aves.	50	8.00 to 12.00
Edgewater,	Miss Parkenson,	123 South, So. Carolina Ave.	50	10.00 to 12.00
Castlemere,	Mrs. M. Muldune,	106 South, So. Carolina Ave.	30	8.00 to 12.00
Epworth,	M. M. Downs,	121 South, So. Carolina Ave.	40	8.00 to 12.00
Glenville,	Mrs. Hopkins,	South Tennessee Ave.	100	8.00 to 12.00
Hewitt,	W. S. Ives,	29 South Pennsylvania Ave.	60	10.00 to 12.00
Berkeley,	Bew Bros.	Ocean End Kentucky Ave.	150	12.00 to 18.00
Elberson,	Mrs. M. J. Eckert,	Cor. Tenn. & Pacific Aves.	200	10.00 to 12.00
Hoffman,	Mrs. Calloway,	South Pennsylvania Ave.	200	18.00 to 20.00
Wellington,	H. S. Milnur,	South Kentucky Ave.	300	15.00 to 20.00
Wiltshire,	E. L. Chandler & Co.	South Virginia Ave.	150	15.00 to 25.00
Lehman,	Miss Lehman,	114 South Penna. Ave.	200	15.00 to 20.00
Lelande,	S. Waguer,	Mass. Ave. and Ocean,	150	15 00 to 25 00
Louella,	Mrs. Carver,	138 South Tennessee Ave.	40	8.00 to 12.00
Monterey,	E. K. Newcomet.	Virginia Ave. Ocean End,	100	12 00 to 20.00
Ocean Villa,	Mrs. Scherubergen,	So Carolina & Pacific,	50	8.00 to 12 00
Park Cottage,	M. B. Walker,	1302 Pacific Ave.	30	9.00 to 12.00
Raymond,	Mrs. M. D. Evans,	South Virginia Ave.	75	12 00 to 18.00
Saratoga,	Mrs. S. A. Haines,	South Carolina Ave.	40	10 00 to 12.00
Upton,	Mrs. Fothergill,	South Tennessee Ave.	50	8 00 to 12 00
Vinedole,	Mrs. Frambes,	South Pennsylvania Ave.	40	8.00 to 12.00
Windsor,	G. Waters & Son,	South Illinois Ave.	250	18 00 to 30.00
Fraymore,	W. W. Green & Co.	South Illinois Ave.	250	18.00 to 30.00
Brighton,	F. Hensley & Son,	South Indiana Ave.	300	20.00 to 35.00
Dennis,	Joseph Barton,	South Michigan Ave.	500	18.00 to 30.00
Shelburne,	J. W. Southwick,	South Michigan Ave.	200	18.00 to 30.00
Haddon Hall,	Leeds & Lippincott,	North Carolina Ave.	250	18 00 to 30.00
Chalfonte,	Mrs. Roberts & Son,	North Carolina Ave.	250	18.00 to 30.00
Kenilworth,	Mrs. Grubb,	Kentucky Ave. Beach End,	150	15.00 to 20.00
United States,	J. S. Davis,	Maryland & Pacific Aves.	Special rate $2.50 & $3.00 per day.	
The Stratford,	(European plan),	Beach End Kentucky Ave.	$1 50, $2 & $2.50 per day; 65 rooms.	

SAGINAW, MICH.—The Union street railway has decided to create a public park on its line, and expend $15,000 on same, with the object of stimulating traffic.

TAMAROA, ILL.—The Tamaroa Nursery Co. has been incorporated with a capital stock of $5,000. W. H. Arndt is president and Clyde Curlee secretary and treasurer.

MADISON, WIS.—The Madison Nursery Co. has been incorporated with a capital stock of $10,000. The incorporators are J. A. Tormey, Chas. Nelson and B. M. Bruce.

HARRISBURG, PA.—Mrs. Sarah Badger, widow of the late William E. Badger, has left the city, leaving many debts unpaid. Quite a number of the florists are caught, some for considerable sums.

DELAWARE, O.—Mr. Jas. H. Cunningham, the florist, is now president pro tem of the city council and is also chairman of the council finance and city hall committees. He represents the second ward.

SCHENECTADY, N. Y.—The *Schenectady Reflector* of June 28 gives a description of the establishment of Mr. J. E. Felthousen the florist, from which we learn that Mr. Felthousen has over 15,000 feet of glass and that he is also quite heavily in fruits, having 8 acres devoted to fruit.

WILMINGTON, DEL.—Spring plant trade was about one-fifth less than last year. Average retail price of 4-inch geraniums was $1 a dozen. Collections about as usual. Plants sold very cheap this year. Mr. Isaac Baylis has started in the business and is building some houses.

DANVILLE, ILL.—Mr. P. G. Walker has bought the Maple Hill Floral Co's. greenhouse and grounds and will continue same under the title of Logan Avenue Greenhouses, with Mr. B. E. Wadsworth in charge. Specialties will be made of new pelargoniums, ivy leaf geraniums and carnations. They are putting in a large steam pump to supply water for greenhouse and land.

BRIDGEPORT, CONN.—Spring plant trade was about 10% less than last year. Average retail price of 4-inch geraniums was $1.00 a dozen. More call for geraniums and cannas and less for foliage plants. Collections fair. There has been considerable cutting in prices. S. E. Banks has opened a floral store at 318 Main street. The Lomel Floral Co., which started up last winter, has failed.

DAVENPORT, IA.—Referring to the building operations of Mr. Chas. Dannaeher it should be added that the houses are all completed and in fact were finished and planted last May. The short-span-to-the-south house is 20x200, the other is a continuation of a house 20x100 with three quarter span, the long span to the south; another house is 9x200 with glass partition in center and piped so as to regulate the heat in each division. Mr. Dannaeher has also sunk a deep well and got in soft water. He has a pump that lifts 60 gallons a minute into a tank 20 feet high.

Detroit.

J. Noel, late of Holznagel & Noel, is now located at Woodmere P. O., in the suburbs, where he is engaged in growing for the Detroit market.

Among Detroit florists who contemplate adding to their plant this season are Benrd Bros., Fort street, west. Andrew Ferguson will erect a branch office on Willis avenue, in addition to his main establishment on Farnsworth street.

Belle Isle Park is wonderfully improved this year, and is a breathing place of which the city is entitled to be proud. To those remembering the swampy, unkempt look of the place a few years ago the change is wonderful. There is some good bedding in the neighborhood of the



VIEW OF THE ROSE HOUSES OF F. R. PIERSON CO. AT SCARBOROUGH, N. Y.

bathing pavilions and casino, but the greater part of the island is to be purely natural, and as much of it is heavily timbered with very fine trees the result is extremely beautiful. A system of lagoons or canals, extending the length of the island, spanned by rustic bridges, and dotted with tiny islets, is cleverly carried out; the little islands are all to be planted naturally. Supt. Ekstrom is to be greatly congratulated for the improvement effected within a comparatively short time.

Famous Orchids.

A writer in the London *Graphic*, speaking of costly orchids, mentions fifteen plants in various collections which may be roughly calculated as representing a value £2000 or $10,000. These are—"1, Masdevallia Harryana Gravesiæ, belonging to Mr. Graves, Orange, New Jersey, U. S. A., and for which he is said to have a standing offer of 500 guineas; 2, Cypripedium S'ouei platytænium, of which at various times Baron Schröder has bought pieces for £106, £159 12s., and £100, and Sir Trevor Lawrence and Mr. W. Lee bought one in partnership for £147; 3, Cypripedium insigne Sanderiana, still unique, of which bits have been sold for 72 guineas, 100 guineas, and 250 guineas; 4, Odontoglossum crispum, Burford variety; 5, Odontoglossum Pescatorei Veitchianum in the possession of Baron Schröder; 6, Dendrobium Williamsianum; 7, Vanda cœrulea; 8, Odontoglossum Williamsianum, probably a natural hybrid between O. grande and O. Schleiperianum; 9, Dendrobium Sanderæ, beyond price as yet; 10, Vanda Lowi; 11, Aërides Lawrenciæ, for which Sir Trevor Lawrence paid 260 guineas at auction; 12, Saccolabium Heathi, an albino of the Fox-brush Orchid, which Mr. Lee sold to Baron Schröder for 157 guineas; 13, Cattleya Mendeli Blunti; 14, Cattleya Parthenia, an albino of C. intermedia; and 15, Cattleya speciosissima Sanderiana, for which Mr. A. Wilson of Sheffield paid 100 guineas."

News Items.

Subscribers are requested to report to us anything of trade interest that may take place in their vicinity. Where they happen to be nearer to the following points notes may be forwarded to our correspondents there, the name and address of each being given below:

NEW YORK AND BOSTON.—W. J. Stewart, 67 Bromfield St., Boston.
PHILADELPHIA.—Robert Kift, 1725 Chestnut St.
CHICAGO.—Office of publication.
ST. LOUIS.—Robert F. Tesson, West Forest Park.
WASHINGTON.—C. Leslie Reynolds, U. S. Botanic Garden.
TORONTO.—A. H. Ewing, 85 Carlton St.
BALTIMORE.—Wm. McRoberts, Jr., 304 W. Madison St.
BUFFALO.—Wm. Scott, 479 Main St.
PITTSBURG.—A. J. Edmonds, 45 Dithridge St.
DENVER.—H. H. Given, Cor. Lincoln and Alameda Sts.
MILWAUKEE.—C. B. Whitnall, 438 Milwaukee St.
CLEVELAND.—L. F. Darnell, 101 Euclid Ave.
CINCINNATI.—E. G. Gillett, 131 Walnut St.
INDIANAPOLIS.—W. G. Bertermann, 37 Massachusetts Ave.

A VERY complete exhibition of fruit will be made at the St. Louis Exposition from September 5 to October 13, 1894. It will be in charge of the Missouri State Horticultural Society, of which L. A. Goodman, Westport, is secretary.

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

HORTICULTURE VS. ENGINEERING.

It seems to us that it behooves our national organization to take some steps looking to the placing of horticulture upon its proper level with the other professions, for instance, that of engineering. It is a notorious fact that in considering plans for the laying out and maintenance of parks and public gardens the voice of the engineer has far more weight than that of the horticulturist. That this is fundamentally wrong we believe every one in the profession will agree.

We are willing to concede to the engineer that his work is of very great importance, but we must still hold that the work of the horticulturist is of even greater value in the creation of a park or garden that is to be what its name implies. The profession of gardening has yet to make a considerable advance in the estimation of the general public before it receives the consideration to which it is entitled. People who are ready to accord due honor to the work of the engineer are altogether too apt to belittle that of the gardener. They tell you that to produce a competent engineer requires a technical education that can be thoroughly acquired by comparatively few men. They make a very decided distinction between engineers of ability and those of a lesser degree of merit, but in the case of the gardener nine times out of ten the whole profession is placed upon one common level, and that level is generally that of the alleged gardener who mows the grass and mutilates the trees and shrubs on the grounds of the gentlemen composing the committee to pass upon the merits of horticulture as compared with that of engineering in the creation of public parks.

It seems to us that something can be done through our national organization to educate the general public to an appreciation of the thorough technical education required to produce a really first-class gardener. Referring particularly to the creation of public parks and gardens, does it require any more technical skill to carry out the engineering than the planting, which requires the planter to see in his mind's eye the picture that the landscape will present, not only immediately after being planted, but also thirty to fifty years hence? The landscape gardener as we understand his work, must know not only what trees and shrubs are adapted to the varied locations in the garden he is creating but also which will do well in that particular latitude, and further he must know to what size and condition each individual specimen will develop when it has reached maturity. He must combine all these varied elements into first what will create a beautiful picture forty or fifty years hence, second (by filling in other details which are to be subsequently removed as the final effect grows) one for only twenty-five years hence, and still work no injury to the final master-piece. He must not only do this but he must provide details that will make successive pictures from the time of the first planting until the final result is attained. His material is of such a changing character that all the numerous variations of nature must be provided for; indeed we cannot conceive of any profession that calls for a wider knowledge than does this one.

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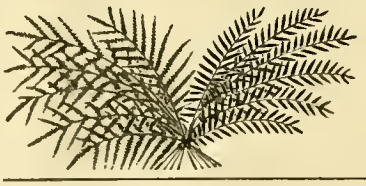
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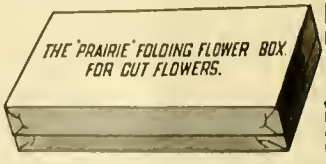
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New Orleans.

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H. P.

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Nymphæa Devoniensis	.50	5.00	
" Flava	.20	2.00	8.00
" Odorata.	.10	1.00	6.00
" " Gigantea.	.20	2.00	12.00
" Zanzibarensis Azurea, in bloom	.40	3.50	25 00
" Rosea, in bloom. . . .	.40	3.50	25.00
" Dentata	.50	4.00	30.00
Pistia Stratioles or Water Lettuce		.15	1.00
Myriophyllum Proserpinacoides or Parrot's Feather. . . .		.15	1.00
Sarracenia Variolaris.	.10	.50	3.00
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Small plants of N. Zanzibarensis and N. Dentata, 10c each, or seeds 10c per large packet, or $2 00 per ounce, not prepaid.

Nephrolepis Exaltata (Sword Fern), selected plants from open ground, $12.00 per 1000, or $2.00 per 100, delivered.

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Worcester, Mass.

The weather still continues to be insufferably warm, with no rain to amount to anything, and vegetation is suffering very much in consequence. Carnations in the field that were planted before the fifteenth of June are holding their own fairly well, but anything planted much later is at a standstill, and unless we have an abundance of rain the last half of this month won't be big enough to house.

Considerable funeral work has helped us to dispose of some of the quantity of stuff going to waste, but outside of this and a little cut flower trade that is regular the year round there has been nothing.

Notwithstanding the excessively humid weather of July 19 there was a large attendance at the regular exhibition of the Horticultural Society, and a very good display of flowers. There were some good stands of '94 seedlings, made up of a great variety of splendid flowers; the displays made by F. A. Blake and H. A. Jones were especially noteworthy and secured first and second premiums respectively. Some good petunias were also shown by F. A. Blake, which were awarded a first, with Mrs. A. A. Hixon second. Considerable interest was centered on the display of baskets (no restrictions), which were divided into two classes, amateur and florist. In the amateur class F. A. Blake had the best made up basket, and H. A. Jones the second best; H. F. A. Lange carried away the honors in the florist class, and W. J. Wood secured second prize.

But the feature of the show was the display of sweet peas made by W. T. Hutchins of Indian Orchard, Mass., which was a revelation to many of us of the wonderful improvement the sweet pea has undergone. Mr. Hutchins exhibited some eighty varieties, shown in bunches of about fifty stems, filling over one hundred vases; among them were most of the Eckford novelties, which surpassed anything ever shown here for size, fragrance, substance and color. Among the varieties that showed the results of an especially careful treatment were the following:

Mrs Sankey, a large finely formed white.
Royal Robe, delicate pink, large and of good substance.
Mrs Eckford, splendid primrose yellow.
Countess of Radnor, a beautiful mauve.
Peach Blossom, salmon and white, beautifully shaded.
Dorothy Tennant, large, rosy mauve.
Stanley large, finely formed maroon.
Lady Penzance, beautiful combination of pink and rose.
Her Majesty, large rose pink.
Indigo King; the name is a description.
Mrs. Gladstone, silvery pink.
Princess of Wales, large mauve on white field.

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L. DELARUYE-CARDON,
NURSERYMAN,
LEDEBERG, GHENT, BELGIUM,
begs to call special attention of the American nursery trade to his splendid stock of plants grown for export in the fall, consisting chiefly of
AZALEA INDICA,
PALMS, and
ARAUCARIA.
Price list and full particulars on application.

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When you unstrap your boxes?
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Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpleri, in 100 choice varieties.
Japanese Maples, in best varieties.
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PITCHER & MANDA'S
Quarterly Trade Catalogue of
BULBS, PALMS, ORCHIDS, FERNS, ETC.,
for July, August and September, 1894,
has just been mailed to all addresses on their register. This catalogue should be in the hands of every florist in the United States, and anyone not receiving a copy should send for one immediately, enclosing business card. We are better prepared than ever before to supply our customers' needs at the lowest wholesale prices and a personal inspection of our stock is especially desired. We recommend to all florists our unsurpassed stock of Decorative Palms and Ferns in all the best leading varieties, also our fine stock of fine Ornamental Foliage and Flowering Plants. Correspondence solicited.
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. . . . SHORT HILLS, N. J.

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Plants in bloom, all sizes, at lowest prices.
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SMILAX.
Plants from last fall; these have a foundation and will begin to run strong at once. $2.50 per 100; $20.00 per 1000.
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Field-grown plants, $1.25 per 1000.
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Sample mailed free.
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The Finest Strain in the World.
Bright dark red.....100 seeds $1.50
Rose of Marienthal.....100 seeds 4.50
White with carmine eye.....100 seeds 3.75
Mont Blanc, EXTRA.....100 seeds 5.00
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THE AMERICAN FLORIST CO.'S
DIRECTORY
AND
REFERENCE BOOK
FOR 1894
CONTAINS THE FOLLOWING:
1. The names and addresses of the Florists, Nurserymen and Seedsmen of the United States and Canada, the exact branch of the business each is engaged in being indicated.
2. A separate list of firms that issue catalogues, the space devoted to each branch of the business in each catalogue being also given.
3. A list of the names and addresses of superintendents of leading parks in the U. S. and Canada.
4. A list of the principal cemeteries of America at which the arts of the landscape gardener and florist are used in beautifying the grounds.
5. A complete, alphabetically arranged list of Roses in commerce in America, with class, habit of growth, date of introduction, name of introducer, and brief, accurate descriptions of the flower of each. Synonyms are also plainly given.
6. A complete, alphabetically arranged list of Chrysanthemums in commerce in America, with class, and brief, accurate description of each. Synonyms are noted and varieties that are very popular with American growers are designated by a star, and this year's introductions by a dagger.
7. A complete, alphabetically arranged list of the Carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each.
8. Seasonable Hints for the year, arranged in weeks, written by Mr. William Scott, and covering every detail of a general florist business. This is decidedly the most valuable contribution to the literature of the trade ever published. It is written in a plain, practical way, by a man who knows what he is talking about.
9. A historical sketch of the Society of American Florists from its organization to date, including officers for each year and lists of essays read at each meeting, with other information of interest.
10. A similar historical sketch of the American Association of Nurserymen.
11. A similar historical sketch of the American Carnation Society.
12. A similar historical sketch of the American Seed Trade Association.
13. Similar historical sketches of the Florists' Hail Association of America; of the National Chrysanthemum Society of America; of the Florists' Telegraph Delivery Association.
14. A complete list of all National and Local Trade Organizations, with names and addresses of principal officers, time and place of meetings, etc.
15. Statistics of Commercial Floriculture in the U. S. from the last census.
16. Statistics of the Nursery Industry in the U. S. from the last census.
17. Statistics of Seed Growing in the U. S. from the last census.
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Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc., etc. Nymphæa Laydekeri roseus (awarded a Medal at World's Fair); most charming of all the HARDY Lilies; $2.50 each.
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300 Brides, 4-inch; 600 3-inch.
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640 Perles, 4-inch; 525 3-inch.
80 Mme. Testout, 4-inch.
250 La France, 4-inch.

4-inch $10.00 per 100; 3-inch $6.00 per 100.

580 Bridesmaids, 3-inch.....$7.00 per 100
100 Kaiserin Augusta, 3-inch...10.00 per 100
80 Mme. Testout, 4-inch.....for $12.00
50 American Belle, 4-inch.....for 10.00
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160 " " 4-inch.....18c. each
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Roses. Roses. Roses.

Perle, Niphetos, Mermet, Bride, Victoria, Meteor, La France, Albany, Gontier, White La France, Soupert and Bridesmaid, 2 1-2 inch pots, $5.00; 3-inch pots, $6.00 per hundred.

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THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

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3-inch pots, $9.00 per 100. 4-inch pots, $12.00 per 100.

PERLES, SUNSETS, BON SILENE, MERMETS, BRIDES,
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Roses, H. P. Roses, Rhododendrons, Azalea mollis, Clematis, Hydrangeas (bushy and tree form), Aucuba, Buxus, Acer in sorts, Viburnum plicatum, Dutchman's Pipe, Magnolias, etc.

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Brides, Bridesmaids, Meteors, Hostes, From 2, 3 and 4-in. pots.

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Cusins, . . . Niphetos, Mermets, La France,

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Sole Agents for U. S. for Chas. Macintosh & Co., England, Inventors of Vulcanized India Rubber, Extra strong greenhouse hose to withstand high pressure, ¾-in., 3-ply, 15c. per foot in 50 feet lengths.

AMERICAN BEAUTY, TESTOUT, K. A. VICTORIA, BRIDESMAID, BRIDE, MERMET, METEOR, PERLE, SUNSET, CUSIN, LA FRANCE, 3 and 4-inch pots, prime stock, shipped at special florists' rates. Packing light.
Write for prices, including delivery to your Express office. A. S. MacBEAN, Lakewood, N. J.

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MERMETS	2-inch,	$3.50 per 100
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Three thousand, in 3½-inch pots; extra fine stock, at $10.00 per 100.

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Cincinnati.

The 69th monthly meeting of the Cincinnati Florists' Society was held Saturday evening, July 14, with about 25 members present, President Critchell presiding.

The committee having in charge the decorating of Mrs. Holroyd's grave was discharged and tendered a vote of thanks for their services.

I do not know how it is in other cities where Florists' Clubs are organized, but with us it is very hard to get the boys to attend the monthly meeting. The only time we get a real good turnout is when there is something to *eat*; that seems to be a drawing card. We have a few members who are willing to read papers, but it is very discouraging to spend several hours preparing a paper and then have only a handful present to hear it read.

Mr. Wm. Murphy at this meeting finished the papers on his trip to the Golden Gate. While the papers were not confined strictly to floricultural topics, yet they gave interesting descriptions of sections of our country, including the great National Park with all its beauty and grandeur, its hot springs, the volcanic eruptions, and a great many other very interesting natural features. He described his fright at seeing a real wild black bear. Wm. said his heart almost jumped out of his mouth; all the bad deeds he had ever committed all passed through his mind in a few seconds, but thanks to a kitchen girl at the hotel and a little dog his life was spared. Ask him to tell you the sponge story!

Trade is of course in the same old way. Funeral work with some of the florists has been very good during the week. Mrs. Fairchild of Covington had quite a nice wedding decoration for the 19th consisting of sweet peas.

Geo. Meek of Covington, buried his mother last week.

Mr. Allick, Sec'y and Treas. of The Highland Floral Co., Dayton, O., was in the city Monday. The writer caught a glimpse of Walter Mott of Philadelphia as he was coming into the city Tuesday evening. Wm. Rendigs, assignee of Chas. J. Jones, Jr., sold at auction Monday, the 16th, all the greenhouses, sash, boiler, pipes, stock, in fact everything that was left of the plant. All told the sale amounted to a trifle over $400.

Otto H. Walke, the Vine street florist who has two penny in the slot machines was arrested for selling impure orange cider and fined $25 and costs. Otto should be more careful.

Our outing at Woodsdale will be a grand success, all arrangements are made and nearly all the florists are going. G.

VIOLETS POT GROWN.

We have a fine stock of pot grown plants, from which experience teaches best results for quality and quantity of flowers can be had:

MARIE LOUISE, SWANLEY WHITE, CZAR AND SCHOENBRUN,

from 2 inch pots, $1.00 per 100; $20.00 per 1000.

Chrysanthemums, young, vigorous stock, just the thing for single stems, in 50 PRIZE WINNING SORTS, $1.00 per 100; $10.00 per 1000.

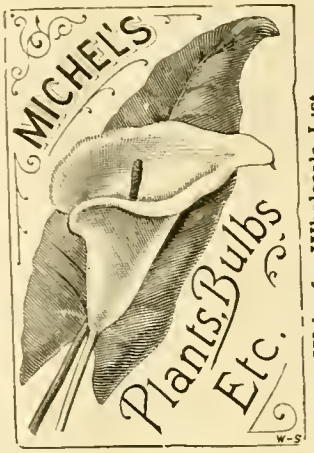
We still have a few thousand 2½-inch plants, strong, of WHITE LA FRANCE and AMERICAN PERFECTION, at $1.00 per 100; $10.00 per 1000.

Above are two ideal Roses, surpassing most varieties in loveliness of shading, and surpass all without exception for durability in a cut state.

ROSES in best commercial sorts, 2½-inch strong, our selection, $20.00 per 1000. An enormous stock in other departments.

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May and June Propagated.

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Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
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EXTRA PANSY SEED.

MAMMOTH SUNBEAM STRAIN.

A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected; better seed plants this year than ever; receive very high praise from my customers; no finer strain offered anywhere; florists should sow of it.

Trade pkt., 500 seeds, 25c; 3 pkts. 60c; 6 pkts. $1.00. A pkt. of the new Monkey Face pansy with every $1 order.

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Every Grower Claims the Best.

I am willing to have mine tested alongside of any in the market. Over a thousand florists used them last season, were pleased with them and made money out of them.

Between Sept. 1st and Dec. 1st I will have a MILLION or more plants to sell. They can not be offered in competition with cheap grown seed, but quality considered, are remarkably cheap at the price.

By Mail or Express, prepaid, 75c. per 100; by Express at your expense, $5.00 per 1000. Liberal discount will be allowed on large orders.

An honest sample of the plants will be mailed you on receipt of ten cents, and terms are absolutely cash in advance.

ALBERT M. HERR, L. B. 496, Lancaster, Pa.

ZIRNGIEBEL GIANT PANSIES.

Owing to favorable weather, have been magnificent this season. Never before have we obtained such size and colors; and as usual, wherever exhibited, have eclipsed everything else, receiving also the most flattering testimonials from the leading florists and seedsmen all over the country.

New seed ready now of both the Giant Market and Giant Fancy in trade packets of 2,000 and 500 seeds respectively at one dollar each, with practical directions for growing pansies. Also plants for sale later on.

DENYS ZIRNGIEBEL,
. . . NEEDHAM, MASS.

Pansy ★ Seed.

The **JENNINGS STRAIN** of high grade Pansy Seed. New crop now ready. Saved with special care from only the very finest varieties and (warranted) first-class in every respect.

THE JENNINGS XX STRAIN.

The cream of Pansies. Grand colors mixed, pkt., 1500 seed, $1.00; 1 oz. $8.00.

The Jennings Strain, finest mixed, pkt. $1.00 about 2500 seed; 1 oz. $6.00; 3 ozs $15.00. No skim milk in this strain. (They are just as good as I can make 'em). To my old patrons I would say they are a big improvement over last season—more variety and finer colors. The best strain for florists either for winter bloom or spring sales; all large flowering.

Black Dr. Faust, finest.....pkt., 2500 seed, $1.00
Finest Yellow, black eye..... " " 1.00
Pure White, the best..... " " 1.00
Victoria, bright red..... pkt., 1000 seed, 1.00

All my own growth of 1894. Half pkts. of any of the above 50c. Please send money orders or registered letter. Cash with order. Address

E. B. JENNINGS, Wholesale Pansy Grower,
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Roemer's Superb Prize Pansies.

The finest strain of Pansies in the World.

Introducer and Grower of all the leading Novelties.

Catalogue free on application.

FRED ROEMER, SEED GROWER,
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Pansies Worth Raising.

THE KIND THAT SELL!!

NEW SEED, perfectly ripe.

One package, 1-8 of an ounce.....$1.00
Five packages..... 4.00

Large quantities at special rates. Cash with order.

CHRISTIAN SOLTAU,
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EXTRA CHOICE IMPORTED PANSY SEED.

Heretofore I have only offered my very choice Imported German Pansy Seed in a retail way, but finding that some florists who have grown it will not have any other, regardless of cost, I have decided to offer it to the trade at a reduction of 50 per cent. from catalogue rates. About 50 separate varieties and several mixtures, including many of Roemer's finest strains. Write for catalogue, and do not forget to mention that you are in the trade.

L. R. BENEDICT, ELLENVILLE, Ulster Co., N. Y.

PANSY SEED....

For eleven years the growing of FINE Pansy Seed has been my Specialty.

Quality and Price to suit the times. Ask for trade list.

DAVID B. WOODBURY,
Professional Originator. PARIS, MAINE, U. S. A

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ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,

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The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.

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Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich St., New York City

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The new Carnation; pure white, delicately marked with red.

Price for well Rooted Cuttings: $3.00 per dozen; $12.00 per 100; $25 00 per 250; $90.00 per 1000. 500 at 1000 rate. Orders may be sent either to

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FRED. DORNER & SON,

Carnation Growers,

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Rooted Cuttings all sold or planted out. Field plants for sale in the fall.

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TESTED and NEW CARNATIONS.

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CHRYSANTHEMUMS.

From 2½-in. pots, @ $3 per 100.

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Foreign Notes.

A new hybrid disa, raised by Jas. Veitch & Son, is D. Langleyensis. It is the result of a cross between D. tripetaloides and D. racemosa, both comparatively recent species. Flowers magenta pink, very freely produced. It is likely that more beautiful hybrids will result from the same cross.

A new variety of Lælia tenebrosa, which has received the varietal uame Pittiana, is described as being of very great beauty. Across the lower sepals the flowers have a breadth of 8 inches, and are very shapely. The sepals are lucent yellow green, tinged and veined with purple. The petals are the same color, tinged with purple on the lower side, with a band of greenisb yellow up the center. The lip is white, with lines of bright crimson; the base of the lip white. The plant is described as being fully as beautiful as the Walton Grange variety of tenebrosa, for which the owner recently refused an offer of 160 guineas ($800).

Sweet pea Emily Henderson was the recipient of a certificate from the Royal Horticultural Society in June last. A correspondent of the London *Journal of Horticulture* says be has four named varieties of white sweet peas, but none equals Emily Henderson.

It is said that the floral tributes at the funeral of President Carnot were the richest ever seen at any public funeral, and it is estimated that half a million dollars was expended on these flowers. Twelve two-borse cars were loaded with floral emblems. The tributes from the various crowned heads followed these cars, borne on the shoulders of firemen in uniform.

Lælio-Cattleya Canbamiana is another beautiful hybrid raised by Veitch & Son, a cross between Lælia purpurata and Cattleya Mossiæ. It is dwarf in habit; the sepals and petals are pure white, while the lip, which is large and frilled, is velvety crimson purple with a narrow white border. Lælio-Cattleya Arnoldiana is another beautitul thing raised by Sander, being the result of a cross between L. purpurata and one of the summer blooming cattleyas of the labiata section. The flower is very large, sepals and petals rosy purple; the lip intense magenta crimson, with a bronzy yellow throat.

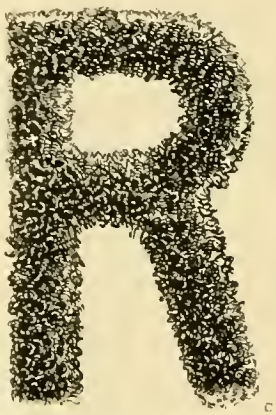
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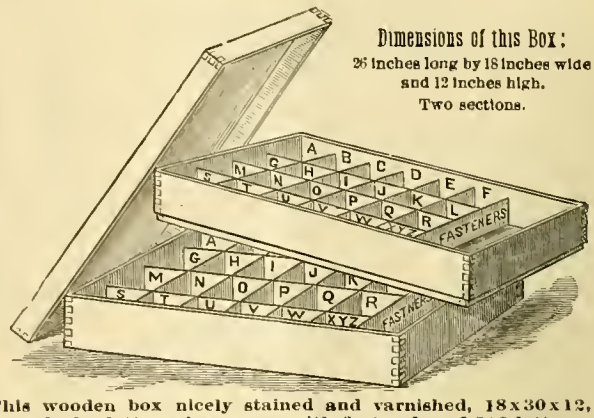
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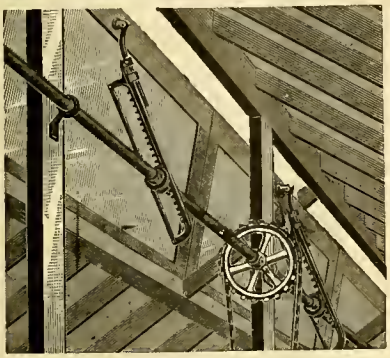
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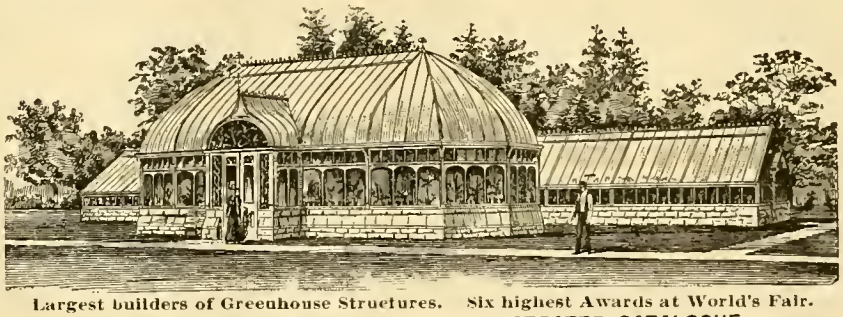
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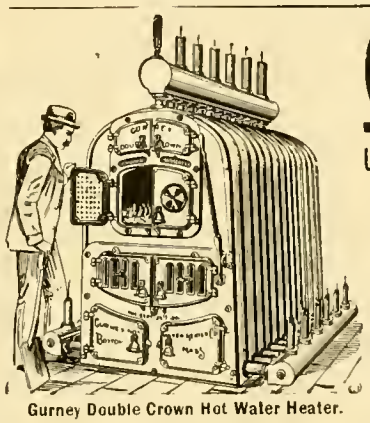
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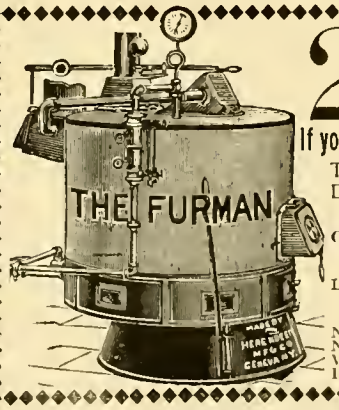
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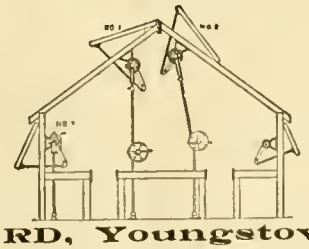
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"Danger in Flowers."

An article under the above head is making the round of the dailies, in which all sorts of terrible things are said to result from inhaling the perfume of flowers. An alleged scientist is said to be authority for the statement that operatic singers have completely lost their voices through their passion for certain flowers. The following extract from the article shows conclusively the absurdity of the whole thing:

To some persons the perfume of the violet is particularly injurious. Others should avoid the lilac, and others the gardenia. Personal susceptibility has much to do with the injurious effects that may result from smelling certain flowers, and M. Joal can not, therefore, say what particular flowers should be avoided by certain temperaments.

The writer cites a case of a young woman who used to invariably faint at the smell of orange blossoms. The curious conjunctiou of a susceptible young woman and a bridal wreath in this illustration might lead to the supposition that there is more in the case than M. Joal makes apparent. He tells of a soldier who lost consciousness under the effect of the odor from a peony, and alleges that persons have been known to suffer a violent attack of coryza from smelling roses. It is suggested that a great perceutage of the headaches, colds in the head, and the like, ailments from which people, especially women, suffer on the morning after attending a ball, dinner party, or other social function, is a direct result of the odors of the floral decorations.

Of course it would be unreasonable to attribute the colds to sitting in drafts with unprotected shoulders. And where do the men catch their colds and headaches? Of course the latter can not possibly come from overindulgence in liquid refreshments. It must be the smell of the flowers at a distance—or from around the corner.

Look Out for Him.

A party by the name of J. J. van Julay, claiming to be the owner and patentee of a wooden hose mender, managed to swindle several florists in Cleveland recently by clever misrepresentations. He is described as about 40 years old, 5 feet 5 inches tall, weight about 135 pounds, sandy complexion, a long sandy mustache, wears glasses, talks with a slight German accent, and claims to be a Bohemian count.

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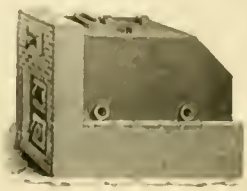
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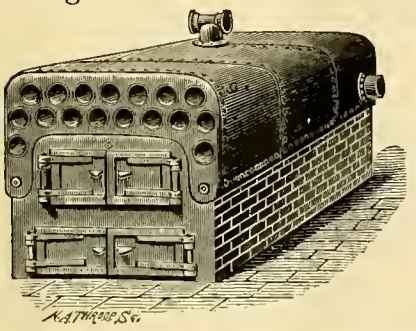
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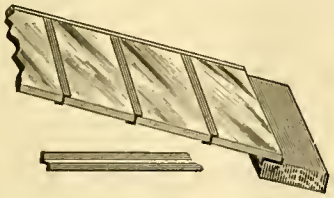
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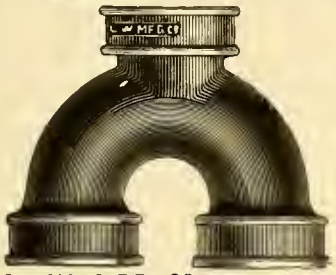
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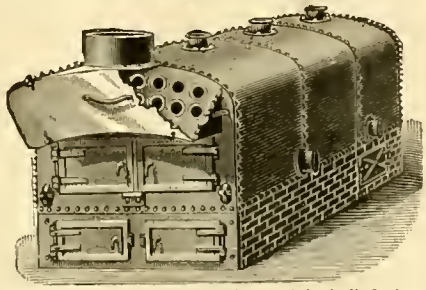
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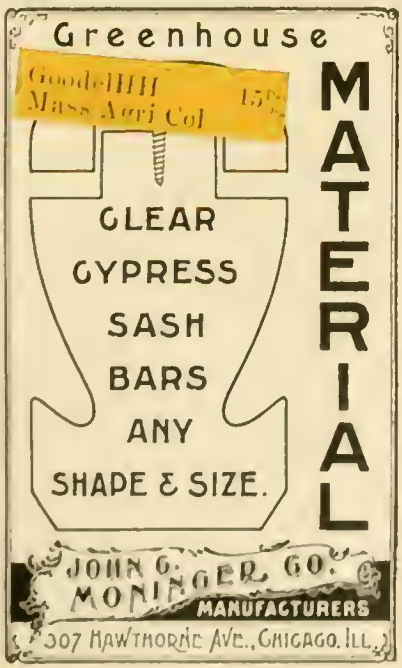
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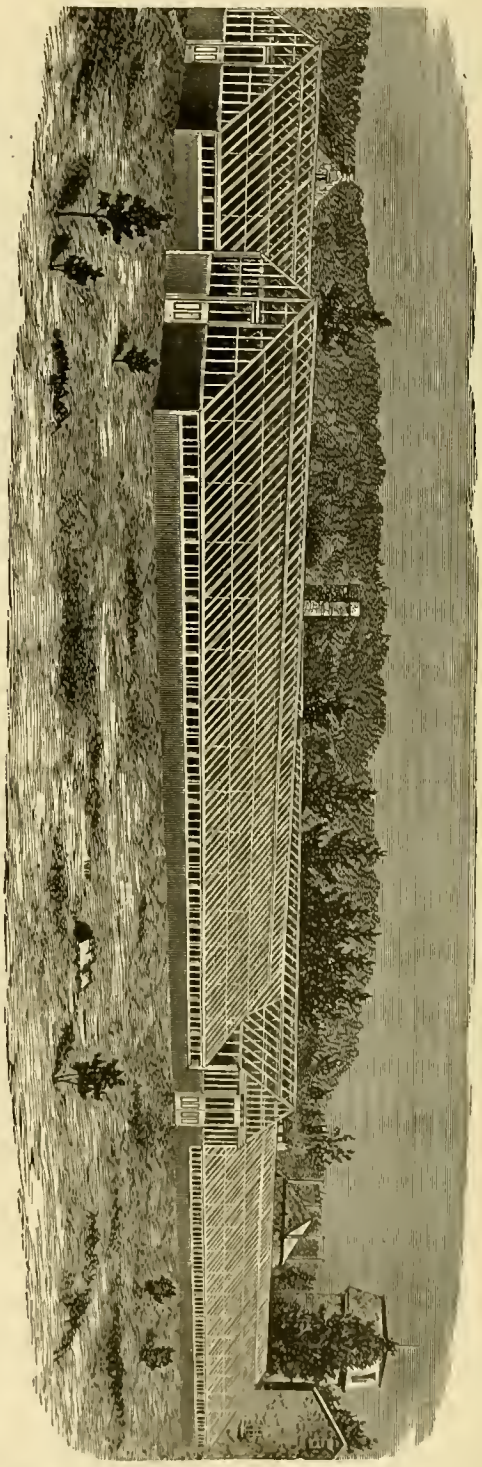
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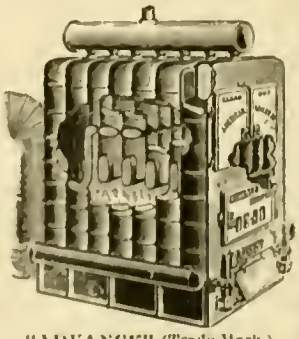
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Vol. IX. **CHICAGO AND NEW YORK, AUGUST 2, 1894.** **No. 322**

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OF THE

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DO YOU WANT detailed information about the organization and workings of the various national trade organizations? You will find what you want in our trade directory and reference book for 1894. Price $2.00.



Mme. Caroline Testout.

This most beautiful of pink roses has aroused a wide interest among both professional and amateur florists, and inquiries concerning its habit and cultivation have been numerous during the last few months. Many of them have been answered by letter, but to answer them all in this manner would require the patience of Job, as well as a stenographer and typewriter. Fortunately it is not necessary to answer personally all who would learn about the Testout when so good a medium as the AMERICAN FLORIST is available. Judging by the great popularity and beauty of this new rose, as well as from the very numerous inquiries to which I have referred, a short article concerning it would not be out of place.

The questions which have been addressed to me on the subject refer principally to the nature of the soil in which it is grown, treatment, whether Testouts will do well grown side by side or in the same house with other roses, and of course nearly all are particular to ascertain the temperature. In my experience this is the most profitable pink rose grown to date. But to be grown successfully its requirements must be thoroughly understood and met by the florist. If mistreated and carelessly handled experience proves it to be anything but profitable. Two years ago my bed of six hundred plants paid me at least double the money received from any other rose grown on my place.

There were two or three good reasons for the unusual profit afforded by them that year, which it is well to keep in mind: The first and most important, doubtless, was that the Testouts from my place were the only ones of note offered in the Chicago market. Again, it was a new rose, and a new shade, and producing many specimens as large as hybrids, the demand remained great throughout the entire winter. Still again, the soil in which they were grown was exactly suited to them. Added to this was the very important fact that they were not cut with long stems until well into the winter. A bed of the same size last season did not pay one half so well, for which there were also as good reasons. It was not quite so much of a novelty; there were more of the variety on the market; by a most unfortunate mistake the soil of the Testout bed was much too light, and unlike the previous year, they were cut entirely too heavily during the months of October and November, leaving the plants in poor shape for the drain of the winter. Notwithstanding these apparent drawbacks it proved to be the third best paying rose on my place, Victorias taking the first and Meteors the second place.

In my experiments in growing Mme. Testout I have found that it is entirely possible to grow it successfully in the same house with such varieties as Perle, La France, American Beauty, Mme. Watteville and Mme. Hoste. That is to say, practically, that it will do well in a night temperature of 60°. I have found that better Brides, Mermets, Gontiers and Christine de Noue can be grown in a temperature five degrees lower.

Soil best suited to Testouts is rich, yellow loam, with the usual amount of manure. Apropos of manuring, let me say here that it is impossible to give minute directions as to the amount or kind to be used because of the great difference in soils. Some soils need more, others less—some require one third, others not more than one eighth. One must use his own judgment; if he has none the sooner the better he abandons the florists' profession. He need not be an expert chemist, but all the requirement would be to use the small modicum of common sense he has. I remember once visiting a friend who is a noted rose grower, and commenting on the great growth of wood and admirable bloom he was having, when I enquired as to his method of manuring. He informed me that he had used no manure whatever. This was so much of a surprise to me that I took pains to ascertain the kind of soil he used. It seems that about eighteen months before my visit to his place he had heavily manured a piece of land and planted potatoes on it. After the potatoes were harvested he seeded it down to timothy. When the timothy was well grown the following May he plowed it under, and after it was well rotted, from that ground he took the soil for his rose bed which had so pleased his visitor. He was right and yet wrong. He had not manured the bed, but the field was composed of most heavily manured soil.

Plants grafted on the Manetti I have found to produce the best results during the fall and winter months, but very little difference was apparent between the grafted and the rooted plants after the first of April. The grower, to be successful with Mme. Testout, must exercise the greatest of care never to allow the temperature to fall below 60°, especially if the foliage is wet, or blackspot will surely result.

It is a very common error to suppose this rose to be worthless as a summer rose because its flower is not very double. On the contrary, if they are cut close, I

have found it to be the very best pink rose I have, or indeed, that I know of. I have been shipping them constantly all summer to St. Louis, their excellent quality securing for them a good demand.

W. W. COLES.

Among Chicago Growers.

Several months ago we published some notes in which reference was made to the successful way in which Mr. Bauske, of Bowmanville, was handling two year old roses on benches. We paid a visit to this establishment the other day. In conversation Mr. Bauske stated that he had received numerous letters of inquiry from growers at different points regarding his modus operandi.

"Now," says Mr. B., "I am an extremely busy man; besides I find the pruning knife a handier tool to ply than the pen, for which reason I have not replied as fully to these communications as their authors would probably wish. If my experience in this line, however, should be of interest or possible value to the readers of your journal I shall be pleased to give it. I can claim nothing new though in the way I handle my roses, neither do I claim it to be the only successful way of growing them, as others doubtless have produced as good results under different modes of treatment. As is well known climatic and soil conditions vary greatly in different localities, hence the difficulty in formulating a rule to hold good in all cases.

"Now, as regards my stock of last season, which consisted almost entirely of two year old plants, I can state that the result, both as regards quality of bloom and number of same, was entirely to my satisfaction. I kept an account of roses cut daily, and find by comparison with the year ending July 1, '93, which was the result obtained from a majority of young stock, that the average cut for the entire year is considerably in favor of last season. On the other hand, if we simply compare the corresponding winter months I find little if any difference in the cut for the two seasons."

"Do you have equal success with all varieties?"

"No, I can't say that I do. Perle, for instance, doesn't do nearly as well with me the second year as the first. Mermets, Brides and Meteors do well. The house of Gontiers last year paid well, and so did the Beauties, which latter were probably as good as I ever grew. For some reason I can do nothing with La France, so I don't grow it at all any more.

"As regards treatment during the summer months, I vary hardly any from that given to young stock; that is of such varieties as Mermets, Brides, Meteors, Perles, etc. I keep the stock growing right along. The benches being filled with roots the plants require more water than young stock, and this fact should not be overlooked. To keep the tables from drying out too quickly I apply a good mulching of coarse manure. Liquid fertilizers during the hot summer months I regard as rather dangerous, and for that reason I prefer a top dressing, which besides giving nourishment to the roots shades the ground and keeps it loose at the same time. I syringe thoroughly twice a day in warm weather.

"I don't like to let the wood grow at will, and then be obliged to trim severely in fall; for that reason I commence trimming out in spring and early summer a little at a time, as I go over the beds cutting the bloom. Some varieties, however, Gontier more particularly, will need a more severe cutting back in fall. Previous to this operation I water but sparingly for a few weeks, but never allow the benches to become entirely dry. Immediately after pruning copious watering is resumed according to the weather."

"How do you treat Beauties, Mr. B?"

"Old stock of Beauties can not always be depended on, but if successfully grown will in my opinion pay better than young stock. I had a couple of benches of these last year, and the same number of young plants. The net results are largely in favor of the old stock. The cut from the latter was about double that of the young plants. The first cut in fall from these old plants was remarkably fine, both as regards size and form of flower as well as stem and foliage. The succeeding crops, however, were but medium, both in length of stem and size of flower, though of good form. Now, as compared in money value these flowers would sell for somewhat less than A1 long stemmed stock. For instance, when the latter would bring $3 per dozen these would sell for $2, but as I cut fully twice the number on the average the plant paid the best.

"This year I replanted last season's young stock in fresh soil, as the Beauty will do nothing the second year if left in the old soil. An equal number of young plants are benched at the same time, to keep up a rotation the following season. I never allow the plants to suffer for want of water before replanting, although it is probably best to withhold the water to the extent of stopping the most succulent growth. As soon as the new benches are prepared with suitable fresh soil the plants are taken up carefully, the old soil is shaken off, care being taken to disturb the fibrous roots as little as possible, and then immediately planted in their new quarters. In this way the plants, if the weather is not too hot, suffer but little, and the roots will take hold in the new soil at once. I should have stated that before taking the plants up they are cut back sharply, but in such a way as not to denude them entirely of foliage."

"I see, Mr. Bauske, you are just starting in to take up this bench of Brides, which appear in vigorous growth?"

"Yes, this bench and one other of Mermets were the only young stock I planted last season. Well, you see the balance of the house is planted in Meteor, and as this rose requires a higher temperature than Bride I concluded it was best to move the plants into another house. It is not the first time I have taken up such stock in full growth, and replanted with satisfactory results. You see the plants are not cut back very hard; I prefer to cut a little more if necessary after the plants commence to grow again.

"Soil? Well, mine is the regulation rose mixture of sod, clay loam and manure. I don't use my sod quite as green as some growers do, besides I like to have it chopped up well, not too fine of course, but small enough to mix thoroughly with the manure, which latter I prefer not too much spent."

"But now to sum up, what in your opinion are the salient points to consider in carrying over your stock for the second year?"

"Well, if we take for granted that such stock does as well in winter as that of young plants, we might consider first the saving in expense of growing one half the quantity of young stuff, figuring that you keep up a rotation of an equal part of one and two year old stock. Last season here in Chicago was an exceptional one, as on account of the prospect for a steady demand at good prices for the entire summer months, in view of the exposition, I was induced to carry over nearly my entire stock, which necessitates the planting of a nearly entire young stock this year. Of course the success depends to a large extent upon the condition of the stock you wish to carry over; if the stuff is doing but indifferently in the spring it is best to throw it out and plant fresh. But to resume, in addition to the saving in stock you may add the cost of taking up and benching the young stuff. The next point gained is the result from three or four months cut of bloom for the summer months. The stock at this season of year brings but a small price, and some weeks may go to waste entirely, still what little is realized is a net gain. If you plant new every year in order to get your plants of a size to insure good results for the winter you are obliged to commence tearing up and replanting quite early, not later than the last of May or early June; in that way you lose the sales at Decoration Day and the whole month of June, which ordinarily pays as well as any month in the year, with the exception of perhaps the Christmas holidays. Talking about Decoration Day, I cut and sent into the market this year about 9,000 roses of fairly good quality, which netted me more money per 1000 than the stock cut at Christmas. We will admit that this was an exceptional year as regards prices at Decoration Day, but it goes to show the advantage of being able to cut a generous amount of stock at such a time. Besides this there is one other advantage, and that is your ability to be a constant shipper to the market. Your commission house, what is of greater importance, even if you supply the retail dealer direct, will serve your interests better if you can offer a steady supply without a break. These briefly are some of the salient points on this question."

"We notice, Mr. B., that you do not shade your houses in summer; what is your view on this subject?"

"Well, I am not entirely satisfied on this question in my own mind; I don't like shading, as it induces a soft growth of wood, which I like to avoid, yet take this summer with clear skies and extreme and at the same time dry heat a light shading would probably have been an advantage, though apparently the stock has not suffered. Last season I didn't shade at all, and the stock came through the summer in fine shape."

Reinberg Bros. have made extensive improvements this year. In the first place several ranges of their establishment underwent a thorough overhauling, both as regards the houses and also the heating apparatus. We are in the habit of speaking of the two Reinberg Bros. collectively as a firm, although, as a matter of fact, the growing establishments are managed separately. But as both places adjoin and there is little difference in either size or other condition between the two, we shall continue to treat it as a firm.

Besides the improvements above mentioned a number of new houses have been added; five saddle roof houses 12x100, running north and south, were completed this spring and are intended for growing violets, but at present are planted to Beauties for summer cutting. One other new house 24x150 in addition to the rose ranges, is already planted, and three more 24x150 houses are under construction for the purpose of growing carnations. This would give a total glass area of about 240,000 square feet. With the exception of the five houses 12x100 above men-



PERISTYLE OF PANTHEON.

DECORATIONS AT THE FUNERAL OF THE LATE PRESIDENT OF FRANCE.

tioned for violets and the three houses 24x150, and another five 12x100 for carnations, which latter are at present filled with summer roses, the whole remaining area is devoted to rose growing. There are twenty houses of Beauties, containing 24,000 plants, all in fine condition; these were planted at different times, so as to ensure a steady supply. A number of the houses first planted are showing good bloom and it is expected there will be no break of a continuous crop from now on. With the exception of two or three beds in solid ground every plant is grown on benches. Both members of the firm are agreed that so far as their observation goes there is not the slightest difference in the result obtained between benches and solid borders, the bench system being preferred for the reason that in their estimation it is easier to work. What is said about Beauties applies to the other stock as well; we find benches in every house, and considering the extreme hot spell through which the stock has passed, every house is looking well. The Reinbergs are thorough believers in early planting, commencing in May; the last house was planted previous to the first of July.

The short-span-to-the-south plan has by this time had a thorough trial, and proved completely satisfactory in every respect. In view of this fact a number of houses in the older ranges have been rebuilt on this plan, and others will probably be remodeled in the near future. As all the houses, the older ranges as well as the new, are built connecting in solid blocks, the well known fact that houses built on this plan shade the adjoining structures less than the other system appears to be the most valuable point in their favor.

Besides Beauties above mentioned Meteor comes next in importance; the number of these benched for winter blooming is about 9,000; Testout 6500, Perles 5,500, La France 6,000, Albany 1,500, Bridesmaid 3,600, Kaiserin 1,700, Brides 4,000, Mermets 1,500 and Wootton 1,500.

About 500 Mme. Pierre Guillot are grown for summer roses, the same number of Meteor, and 1,000 Beauties. The two new varieties, Testout and Kaiserin, are regarded highly by this house, as is indicated by the space devoted to them. The latter, Kaiserin, would have been grown still more heavily this season if it hadn't been for the scarcity of stock; as is being demonstrated at this place, for a first-class summer rose in particular this variety has certainly no superior.

Decorations at the Funeral of the Late President Carnot.

It is asserted that on no previous occasion has the display of floral emblems equaled those at the obsequies of President Carnot. It is estimated that their value reached half a million dollars, and, considered as a floral display, it was without doubt the most remarkable of recent years.

In the great courtyard of the Elysee, where the remains were lying in state, the walls were hidden by black draperies, edged with a deep border of floral wreaths. The imposing catafalque, presented in one of our illustrations, was hung with black and silver: at the foot of the bier were cushions bearing the ribbons and crosses of the various orders to which the President had belonged, while over all was the tricolor of France.

At the Pantheon, of which we present two illustrations, the steps were hidden by hundreds of wreaths, which it had been impossible to carry in the procession. The interior was simply draped in black; some floral pieces were arranged about the catafalque, which stood beneath an immense canopy.

In the procession, of which we also present a view, an immense quantity of floral pieces was carried on twelve two-horse cars, while the tributes from the various royalties were borne on the shoulders of firemen in uniform. Almost every one in the procession carried flowers in some form, and it is noticeable that the majority of the designs were wreaths.

The first place in the procession was given to the wreath sent by the new president, M. Casimir-Perier; it was seven feet in diameter, made of palm leaves and red roses. Queen Victoria sent a wreath of violets, the Prince and Princess of Wales one of roses and violets, and the Queen of Spain a very gorgeous affair of red and yellow. The American colony in Paris sent one of the most beautiful wreaths noted; it was composed of orchids and Easter lilies, mingled with maidenhair fern and scarlet flamingo flowers. The English colony sent a large wreath of marguerites, cornflowers and red carnations wound so as to form the tricolor, and across the center a Union Jack wound

sailor fashion. The students of France sent a wreath 12 feet across, borne on a huge car. The Greeks sent a wreath of orchids, which cost 2,000 francs ($400), and a shield of forget-me-nots having a white cross in the center (the Greek colors). Perhaps the only thoroughly tasteless emblem described was an oval of orchids, having above it what the bearer described as an "apotheosis of M. Carnot"—a large photograph of the late President, surrounded with red, white and blue ostrich feathers; still above that gilt palm leaves and a tuft of ostrich feathers, red, white and blue. The newspaper correspondents mercifully described it as "striking."

It may be noted further that orchids figured very largely in the funeral wreaths. That sent by the King of Belgium was composed of odontoglossums and cattleyas, while another, made of cattleyas only, contained 500 flowers. The wreath sent by the Emperor of Germany was 6½ feet across; it was composed of orchids, Gloire de Dijon roses and cycas leaves. We might continue these descriptions indefinitely; one deduction to be drawn from it is that in Europe at least no other floral emblem approaches the wreath in popularity, while for costly and beautiful work orchids lead all other flowers.



Chrysanthemum Notes.

Many of the readers of the articles that have appeared in the previous issues of the FLORIST have made, we are glad to understand, resolutions to keep notes on the growth of their plants, for we have received a number of inquiries by mail how to line out their books and what headings to use, which we have been very glad to answer to the best of our ability, and there is no doubt if we can get those growers together and express their minds at the meeting of the society we shall be able to arrange a book that will exactly meet the requirements of the growers of the Queen of Autumn in America. Up to the present time there have been probably very few notes made, but when the buds begin to set and are taken there will be plenty to jot down, and after the chrysanthemum season has closed some very valuable information may be gathered from these growers if they see fit to let the fraternity share in the practical knowledge they have gained.

There is but little to do with the plants after they have been tied up until the middle of August, except to keep a careful lookout for their welfare, and keep them on the straight road to success, so let us look forward and see what we can do later in the season to increase the popularity of this grand flower. The shows that are annually held all over the country have been a great factor in doing this, and a great deal depends upon the manner in which the magnificent blooms are presented to the public. We have received the schedules of prizes of the different societies, thanks to the secretaries, and with a few exceptions we note that the prizes for individual cut blooms are qualified with this restriction, "to be exhibited on stems not less than twelve inches in length and without additional support." Let us look at this a moment and ask the reason why. We fail to find any real good one. Why should not an exhibitor be allowed to show his bloom in any manner he wants to, or that he thinks will bring out the best points of his flowers? If he likes the manner in vogue in England, that is, on boards, let him show them that way, or let him exhibit them in bottles with any length of stem he may desire. Who is there, that ever attended any of the large shows, but that has many a time looked at a fine collection of blooms and said to himself that the exhibitor might have improved the looks 100 per cent if he had spent a little more time in arrangement? Mind you, we do not like or advocate the use of boards, and you will see later on that there are many in England of the same opinion, but we do not believe that making the exhibitor show his blooms on twelve inches of stem, often without a leaf, and the blooms nodding this way and that, any improvement, and artistically worse than the board system.

In a paper read before the National Chrysanthemum Society of England by Mr. C. E. Pearson, on "How to improve our chrysanthemum shows," the essayist speaks of the board system thus: "Now, no one disputes that our present system is the most convenient for comparing the merits of individual blooms, and for facilitating the labors of the judges; but then, are the judges the only people to be considered? And can a method be looked upon as perfect which not only stages flowers in stiff formal lines, which are not allowed to deviate a hair's breadth from the proverbial limit any more than if they were soldiers on parade or bricks in a wall, but also removes nearly all the stem, thus destroying the grace and elegance which nature gives even to the largest and heaviest bloom when properly displayed. To place a grand lot of flowers on an ugly green board (after strangling them with a tin collar) fixing them in straight lines in mathematical precision, may give full opportunities for studying the individual bloom, but the general effect, especially in a large building, of dabs of color in long lines is most repulsive to any one with the least artistic sense, and now that the size of the Japanese has increased until they crowd one another, and even overlap, the evil is possibly accentuated." Later on in the paper in speaking of making any change from the board system, which he remarks has often been advocated, and as often promptly objected to, he says: "It would, therefore, be almost presumptuous on my part to advise a radical alteration were it not that this so-called impossibility has already been shown to be perfectly feasible on the other side of the water, where our American friends now allude with contempt to the barbarous practice—now happily a thing of the past with them—of exhibiting chrysanthemums on boards."

In the discussion that followed Mr. B. Wynne remarked as follows: "With reference to what Mr. Pearson has said respecting the practice of showing blooms on long stems as in America I may say that I have two young gardening friends in the States who are familiar with all that pertains to the leading chrysanthemum shows in England. Last year after the Madison Square show at New York, which they visited, I had accounts from both with regard to that exhibition, and they particularly pointed out two things. The second point they impressed upon me was that the plan of showing blooms cut with long stalks in glasses was not a success. The blooms were too heavy to stand up without supports, and after the first hour or two was not much of an attraction. I subsequently saw illustrations of the Madison Square show and anything less pleasing I can hardly imagine."

A great deal that is written in the journals and reports on the other side of what we are doing is very unjust, and sometimes entirely uncalled for, but in this case I think that we can do something to make our exhibitions more attractive and greatly improve the general effect. ELIJAH A. WOOD.

West Newton, Mass.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnations.

While the plants are making themselves in the field it might be well for us to look ahead and make our plans for the following season. One of the first things to think of is the fact that we are likely to have a lot of new seedlings put on the market again. Looking at this from a buyer's point of view one can not help but wish there were fewer of them, for to try them all is quite an item of expense and not to try them all is possibly to miss the very ones that would suit you the best.

This seedling business is getting like everything else in which there has been a little money, very badly overdone. Not that we can get too many really good carnations, but the trouble is that every one who has a seedling that is fairly good puts it on the market, and the buyers expecting considerable more from it than it is able to fulfil get disgusted, and the next season are likely to buy few or none of the novelties offered. This feeling seems to be getting almost universal, judging from the conversation one hears among carnation growers. It remains with the introducers of new carnations to counteract this feeling by being very careful what they put out. This policy has been followed by a few, and one feels pretty safe in investing some money in their stock. Outside of a very few I do not think the seedling business last season paid much better than to have taken up the same room with a good standard variety. To make a seedling a go now it should in the first place be a decided advance over sorts we now have, and the higher this advance is placed the better. Then it should be held until there is a good stock of it, so that blooms can be sent to all the flower shows within reach, and a few good stores supplied with it, and there should be enough plants to supply a good demand for rooted cuttings without cutting the plants all to pieces and weakening the stock. Neglect of this latter precaution I think is often where a new sort gets its death warrant the first year it is put



THE SARCOPHAGUS IN THE PANTHEON.

DECORATIONS AT THE FUNERAL OF THE LATE PRESIDENT OF FRANCE.

on the market. These novelties are generally put on the market at a pretty high figure for rooted cuttings, and it is but just to the buyer that the plants are carefully grown to produce good healthy stock.

Some growers get fancy ideas about the value of a seedling, and think that the men who introduce it are making an independent fortune. I know of one case the past season where one plant of a new white was offered to several growers for $500. It would take a mighty good variety to be worth such a figure as that. Some growers evidently think there is an awful lot of money in a seedling or two.

It is interesting to grow a few seedlings every season, or if you can afford it a house of them, but we should all be very careful about putting them on the market until they have proved themselves of real worth to the average cut flower grower.

ALBERT M. HERR.

Miscellaneous Seasonable Hints.

Those who grow quantities of Lilium lancifolium, and I cannot see how a retailer can get along without them, will cut more than he sells of the pots, and remember the bulbs are perfectly good and profitable for another year; you have not forced them as you do Harrisii at Easter time. Don't throw them under a bench after the stem is cut; place them out of doors, and if the weather is very dry water two or three times a week till stems are ripe. They can then be stored away in any cool place, but keep them in the soil till you are ready to start growing again in January or February.

Gloxinia bulbs can now be bought so cheaply that it hardly pays to keep over the plants that are unsold, yet if you desire a few extra large plants and early ones for next year save those that you don't sell. The same rule applies to these as to lilies, and for that matter all deciduous bulbs. It is murder to suddenly stop all growth and then expect the bulb or roots to have laid up a store of latent vigor for next season. Withhold water gradually and you will be coming near what the plant was accustomed to in its native habitat.

It will soon be time (middle of August I think about right) to sow mignonette. Some advocate solid benches or a very deep bench. If you don't have that 5 inches of soil on a raised bench is good enough. The most important thing about its cultivation is a light house. If shady it will grow spindling and weak and useless. A temperature of 40° at night will suit it finely, with a rise of 10° to 15° in day time. Don't fall into the mistake that many do in growing it thick; 15 inches between the rows and one foot between the plants is amply thick enough. Sow a few seeds at every foot and thin out, leaving only the strongest plant. You may not have a call for mignonette spikes at $1.50 per dozen, but you cannot be without it in your retail trade, for of all "greens" in use in winter time it is the most acceptable, with a few flowers.

Cytisus racemosus, either large or small plants, is now growing very freely. Don't neglect the shears; you can now trim them into compact little heads, and they will stand any amount of shearing.

Adiantum cuneatum, the ever popular maidenhair fern, is always in demand. It is a common thing to see fine specimens here and there that have never been picked at, but seldom do you see good benches of it for commercial use. The demand for it in our trade is continuous every day in the year. The most profitable way to grow it is to plant it out in 5 or 6 inches of soil on a well drained bench. The soil should be one-half light loam, one-fourth thoroughly rotten cow manure and one-fourth well decomposed refuse hops. Some broken up charcoal mixed through the lot will also help. I would call the bench well drained if it had one inch of broken crocks and over them a very thin sod or a thin layer of the spent hops. There are many localities where the refuse hops cannot be procured. Then leaf mould—not muck from the swamp—will do as well. While growing a temperature of 60° at night in winter time should be the lowest. Undoubtedly a moist temperature is what they delight in, without being syringed. It is not half as easy to grow them here as it is in Great Britain on account of our much drier climate. The greatest enemy that A. cuneatum has is the slug. A small lot of these can be mastered by overlooking them and traps set in the way of cabbage leaves and sliced turnips, but a big lot must be treated to air-slacked lime dusted over and into the crowns of the plants. A bench of adiantum well grown will pay about as well as any crop that can be handled.

If you are short of any of the flowering begonias, such as incarnata and others they will now root readily, and make good useful plants by Christmas next.

The great trouble with a propagating house, or rather the sand, is the prevalence of anthracnose. This is an enemy to fight at all times, but particularly in hot weather. The ammoniacal mixture has been told about before, but I will just repeat that I have found the following formula answer finely, and keep the sand absolutely clear of this destructive little plant. It is 2 quarts of common liquid ammonia, at what is known as a strength of 24, in which dissolve 1 pound of sulphate of copper. Pour the whole lot into a barrel of water, say 35 to 40 gallons; I water the sand just before putting in the cuttings and if the fungus should make its appearance before the cuttings are ready to take out give the bench another sprinkling. Thousands of cuttings could be saved if this were followed out with every fresh batch of cuttings.

WM. SCOTT.



Cattleya Hybrids.

Lælio-Cattleya Amesiana. This handsome hybrid was raised by Messrs. Veitch about ten years ago and named in honor of the late Mr. Ames. It is the result of a cross between Lælia crispa and Cattleya maxima. It was pronounced at that time one of the finest of the Veitchian hybrids. It is intermediate in habit, dwarfer than crispa, still stately in appearance, resembling the grand exoniensis. The petals are of better form than the latter, white slightly suffused with pink, and beautifully undulated; the sepals narrower, of the same color; lip broad, expanding, beautifully frilled, margined with purple; front portion of lip rich amethyst purple two inches deep, bordered with a zone of white; the throat a rich yellow. This hybrid is a charming companion for exoniensis, flowering in late summer. We grow them in baskets suspended near the glass, and give the same treatment as cattleyas.

Cattleya minucia. This hybrid is another of the Veitchian gems, the result of crossing Cattleya Harrisoniæ with Cattleya maxima. The result is a plant of stronger constitution than either of its parents, and an ornamental plant; it makes sturdy growth, with two glaucous green leaves at the summit of the bulb. We have six large flowers standing fully expanded, each five inches across, the sepals and petals of a uniform pinkish lilac, veined; the lip broad, three inches long, slightly recurved, the front part of lip netted and colored as in maxima about one inch; the disc broad yellow extending into throat, interior throat turgid pink, side lobes bright lilac. This is indeed a charming hybrid and a grand companion for that other beauty, cucoglossa, which is another hybrid having Harrisoniæ for a parent, but flowering in the autumn.

Lælio-Cattleya Ingrami. This beautiful hybrid was raised by Mr. Ingram, an ardent amateur, after whom it is named. It is the result of crossing Cattleya Dowiana with Lælia Dayana. It is intermediate in habit, partaking of the character of both parents. In the flower the influence of Dayana is strongly pronounced, the petals being about two inches in length by one and a half in breadth, rosy purple; sepals of the same length but narrower and light purple; the lip broad, expanding, of rich velvety maroon, extending and suffusing the whole column. A few gold pencillings are noticeable through the front part of labellum. The rich coloring is here unsurpassed by any other orchid.

We grow this plant in a basket suspended in the cattleya house and use the same material which is used for other cattleyas, viz., good fibrous fern root. Immaterial the variety, whether osmunda, athyrium or polypodium, or a good live sphagnum of any variety and a little charcoal, a sprinkling of dry cow manure. Mix the whole together and you have good cattleya compost.

WM. ROBINSON.

Convention Notes.

TRANSPORTATION.

The committee on transportation say they have had several inquiries about special rates. They say that the special excursion rates to Atlantic City made by almost all railroads are cheaper than the regular convention rate of one fare going and one-third returning. They advise all the delegates to ask their agents for the *special excursion rate through to Atlantic City*. The low rates offered are made to induce travel to the shore, and we think are about half the regular fare.

The Philadelphia club will go by a special train leaving on Monday afternoon. This train will be in charge of the transportation committee. It is to be decorated both inside and out and we are assured that no one will be allowed to suffer from thirst or hunger en route.

HOTELS.

The hotel committee has prepared a list of all the prominent hotels and large cottages in Atlantic City and have made arrangements by which they are to have an up to date account of their accommodations on Monday, the 20th of August. This will be presented to delegates on trains between Phila. and Atlantic City, and copies can also be obtained from the committee at the convention hall. The committee have been assured that there will be no difficulty whatever in finding accommodations for all the members and their friends.

For those who desire strictly first-class accommodations the following hotels are recommended: The Dennis (no buffet), $3.50 per day; the Shelburne (no buffet), $3.50; the Brighton, $3.50; the Windsor, $3.50; Haddon Hall (no buffet), $3.50; the Seaside (no buffet), $3.00. The name of hotel and Atlantic City is all the address required. All the above named houses are situated as near to the beach as possible; they are all number one in every respect. The prices quoted are regular rates; for extra accommodations, special rooms, etc., an additional charge is made.

The large cottages, accommodating from 50 to 150 people and whose rates range from $1.50 to $2.50 per day, accommodate the great bulk of summer visitors, and it is safe to say that a man can suit his purse and tastes in hotel accommodations better in Atlantic City than anywhere else in this country.

THE BOWLING MATCH.

It has been settled that the bowling match is to take place on the Brunswick alleys, corner of Indiana and Atlantic avenues. There are five alleys in this establishment side by side. They are in good shape, plenty of room to run and nothing to interfere with a bowler delivering a ball from either side of alley. The only drawback is that they are not regulation, being but 36 inches wide and the pins only 10 inches apart. They are, however, regulation length, 60 feet from head pin to toe line. There is in addition plenty of room for spectators. The committee have exclusive use of the room which contains the alleys for the two evenings on which the tournament will take place, Wednesday and Thursday, August 22 and 23. As the alleys are public there is nothing to hinder anyone from getting them down fine, and we imagine there will be some tired boys about this establishment before the contest is over.

There will be three team prizes: First, a large silver vase especially made for the occasion; 2d, a handsome ice pitcher and tray that will be an ornament in any florists' club room; 3d, a satin surfaced silver vase and tray. There will be three individual prizes for the best average scores made: First, a sterling silver cup appropriately engraved; 2d, a gold scarf pin in the form of a thistle with a small diamond dew drop; 3d, a pair of gold link sleeve buttons.

There is also to be an individual match for those who are not taking part in the tournament. Everyone who desires will have a chance to roll one game, those making the three highest scores receiving handsome prizes.

The Spaulding cup, now in possession of the New York club, having been won by them from the Phila. club at St. Louis, will of course be the prize of the meeting. The conditions regulating this cup are that it is to become the property of the club winning it the second time. As both New York and Phila. have won it once this contest has a special significance for them. In addition to these prizes the *Florists' Exchange* offers a handsome silk banner, to be given to the club making the highest score in the *first* game. This prize has, like the Spaulding cup, to be won twice to become the sole property of the winner.

The teams are to consist of six men each, as before. Each team will roll two games, the total number of pins in both games deciding the victors. It is proposed to start all the teams on number one alley, then to No. 2, 3 and 4 and back again to No. 1, and so on until the ten frames are completed. In this way all the teams will roll on the same alleys and there will be no choice of positions. Four teams can roll at once. The No. 5 alley will be reserved for the individual match, which can be going on at the same time. Those desiring to enter the contest (and the committee hope that every florists' club will be represented) should address at once John Westcott, Ridge and Lehigh avenues, Phila., chairman of bowling committee.

BOWLING RULES WHICH WILL GOVERN THE TOURNAMENT AT ATLANTIC CITY.

1—The game adopted to be played by clubs in this tournament shall be what is known as the American Ten Frame Game.

2—There shall be a line drawn across the alleys sixty feet from the head or front pin.

3—Any wooden ball may be used that does not exceed twenty-seven inches in circumference.

4—The game shall consist of ten frames when, should the number of points be equal, the play shall be continued until a majority of points upon an equal number of frames shall be attained, which shall conclude the game. All strikes and spares made in the tenth frame shall be completed before leaving the alley and on same alley as made.

5—Players must play in regular rotation, and after the first inning no changes can be made, except with the consent of the Captains.

6—Players are to roll but a frame at a time, and to change alleys every frame.

7—The Umpires shall take great care that the regulations respecting the balls, alleys and all rules of the game are strictly observed. They will



THE FUNERAL CAR.

DECORATIONS AT THE FUNERAL OF THE LATE PRESIDENT OF FRANCE.

be the judges of fair and unfair play, and shall determine all disputes and differences which may occur during the game. They shall take special care to declare all foul balls immediately upon their occurrence, unasked, in a distinct and audible voice.

8—Umpires shall be selected by the Captains of the respective clubs, and they shall perform all the duties in Rule 7, except recording the games, which shall be done by scorers, one of whom shall be appointed by each of the contending clubs.

9—No persons except the Captains shall be permitted to approach or speak with the Umpires, Scorers or players during the progress of the game, unless by special request of the Umpires.

10—A player must not step on or over the line in delivering the ball, nor after it has been delivered, until it leaves the alley. Any ball so delivered shall be deemed "foul," and the pins (if any made on such ball) shall be placed in the same positions as they were before the ball was rolled. It is also considered a foul ball if any part of the person should touch any part of the alley beyond the line before the ball leaves the alley. All foul balls shall count as balls rolled.

11—Should any ball delivered leave the alley before reaching the pins, or any ball rebound from the back cushion, the pins, if any, made on such balls shall not count, but must be placed in same position as they were before the ball was rolled. All such balls to count as balls rolled.

12—Persons to act as Judges shall be chosen, one by each Captain, who shall take their positions at the head of the alleys and see that the pins are properly set up, and that no one interferes with them in any way until the player is through rolling. They will immediately report to the Captains any irregularities that they may notice during the progress of the game.

13—The dead wood must be removed from the alley after each ball. Should a pin be displaced from the perpendicular and in such position that it falls on the removal of the dead wood it is to be counted as down.

14—Sufficient space shall be allotted to the participants in the game, to which none but members of the teams shall be admitted.

A SHOOTING MATCH.

Friday, the 24th, is to be a day of sport, and while we are not authorized to say very much about the arrangements for this day, we feel that it will be best to let the boys know that the committee have arranged to have a shooting match at Blue Rocks by teams of six men each, representing the various florists' clubs.

This match is to come off at the ocean end of the large pier and will no doubt be a very interesting affair.

There is to be a handsome silver vase for the first team prize and valuable souvenirs for the three individuals making the best scores.

The committee will furnish guns and ammunition, but if anyone has a pet shooting iron he is at liberty to bring it along. K.

The Outlook for the Retail Florist.

In the present hard times the outlook for the retail grower is not very rose colored; in many parts of the country the labor troubles have curtailed the incomes of many of the florists' best customers to a great extent and the weather this spring was against plant sales. Another trouble was over production, and some growers being afraid that they could not sell out cut prices, others, to make sales and gain new customers did the same, and to meet them all the others had to follow these examples. Now there is no reason in this age of florists' clubs, why the florists should not fix plant prices in spring in each city, the same as the milk man or coal or ice dealer, of course taking a good clean well grown plant as a standard, I do not mean that the florist should fix an exorbitant price on his goods, but have a living profit. Where is the money in good 4-inch geraniums at one dollar a dozen, and deliver them at that? Other plants in proportion. Now gentlemen, tell me the use of trade associations and societies, when there is no uniformity of prices, and no standard of what constitutes a good or first grade plant; when there are so many petty jealousies and spites among neighbors in our profession, all of which seem to culminate in trying to undersell each other. So just try next season to bury the hatchet, and if you have not a florist club in your city organize one; then all sell at one uniform price and you will find more profit and a much better feeling in the craft.

Another source of trouble in the trade in many parts of the country is parties with no experience in the business organizing floral companies and cutting rates; men who may be able to run a dry goods or grocery store, but who, after six months on the board of directors of one of these concerns, knows more than a man who has had a life-long experience in the trade, and who when they start in business, look down on the florist who knows his profession with contempt, and begin to tell how long it will be until they burst so-an-so up; that they are going to run the trade in that town, etc. Of course they begin to run it by cutting prices to gain customers, and sometimes they make some money, but generally wind up by making an assignment, and in their brief but meteoric career work a great amount of harm to the trade.

Now if you can't make it go in the lines you have been working on, try and make a change; do not keep going out in on in the old rut. If carpet bedding is going out in your town, why don't grow so much of that class of stuff, grow more of the lines that you got most money from; also try and educate your customers to better things. You must play the role of instructor in many places and work the public up to a better knowledge of plants and flowers. In many places the florists are using

the same stuff now as ten years ago, and say "What is the use of doing differently; the people here send to such-and-such a city for their plants and flowers." Now if you only grew that stuff at home they would not send away for it. Whenever you see anything of that come into your town try to excel it next time, and you will keep trade at home.

Another thing is you must make your places attractive; do not allow your houses to be dirty and littered up with rubbish; it makes me tired to have a florist tell me he is so busy that he can not keep the place clean. It shows a lack of system, and you never see good stock on a dirty place. Nothing will keep ladies out of a greenhouse like narrow dirty walks and dusty dirty sheds; a lady will always patronize the establishment where she can keep her skirts clean, and I notice in an extended trip amongst the trade this season that the men who had clean and attractive establishments did not complain of hard times, but were satisfied with the amount of business done.

While it behooves every florist to practice economy this season still the outlook is not so bad as some pessimists and croakers make it out to be, and I think that trade will be fair. Another reason for the hard times cry with florists is that many have too large an establishment for their capital. The large sales and good prices obtained for a few years back have caused many to enlarge their establishments too much, and then when prices fell as they naturally did from increased production and no corresponding increase in the demand, they were unable to meet their payments and that caused a lack of confidence in the trade. While there has not been much increase in new glass this year I think that it will tend to make trade better this season, and I think the florist trade will be in a healthier state this time next year than it is now. One thing is sure; in proportion to the capital invested there has been a smaller amount of failures in the florist trade than almost any other line of business, and somehow the members of the craft always manage to pull through every financial storm in tolerably good shape. I feel sure that trade is going to show a healthy increase next season, for taking this season as a business criterion, and the univeral stagnation in every trade, the florist and nurseryman have no reason to complain. They have done well, and if they only hold together and stop cutting each other's prices there is money in the trade yet.

Hackensack, N. J. JAS. S. TAPLIN.

Chicago.

Mr. J. A. Pettigrew has accepted an appointment as superintendent of the parks of Milwaukee, Wis., taking charge August 1. The city has some 400 acres of parks, a considerable portion of which is yet to be improved. While Chicago horticulturists regret exceedingly to see Mr. Pettigrew go elsewhere they rejoice that his new field of labor is not far distant and that consequently they may hope to see him at least occasionally in the future. Milwaukee is to be warmly congratulated on securing the services of such an able man. If the necessary sinews of war are provided he will surely make Milwaukee's parks merit a national reputation.

Business is as dull as ever. The supply of roses is not very large as yet, but more than enough for all demands. Although the quality is improving, on the whole the average is extremely poor yet. Meteor is fairly good, though the flowers are by no means of so good a quality as this variety is capable of producing in summer. The best selected stock sells at $3. Beauties are coming forward again in good shape; some fairly long stemmed stock may be had which bring $1 a dozen, with an occasional extra fine lot a few points higher. La France does not show up as well as in former mid-summer seasons; the flowers are small and soft; price $2 for the best. A few good Testout and Kaiserin are seen which are in good demand at $3. The balance of the list, which constitutes the great bulk, goes for anything it will fetch.

Blooms from field grown carnations are offered freely but meet with small demand. The flowers are very small, owing to the continued drouth. The plants are reported as suffering severely in many localities, and unless there are rains soon the fields will be badly damaged.

The retail trade is in as stagnant a condition as ever. Joe Curran did a decoration last week which was unique if nothing else. The occasion, as announced by the Fellowship Club, was the annual picnic at Kinsley's woods. The "woods" were planted by our friend Joe in Kinsley's ballroom, and were altogether a good imitation of a certain style of picnic ground. Trees and hedges of arbor vitæ, a fountain in the center surrounded with bedding plants in bloom and pond lilies floating in the water, constituted the decoration. But stop, we must not forget the artistic lager beer signs which adorned the woods everywhere, and such placards as "Keep off the grass" (green sawdust in this instance), "Dogs not allowed in this park," "Beware of pickpockets," and other even more suggestive signs. Neatly hidden in a cozy arbor of fragrant greenery might be found the regulation beer keg on tap. The conception and execution of this "decoration" did great honor to the genius of our friend Joe, and unquestionably proved his familiarity with the subject. The scene was inspiring, for as we left the "woods" we caught sight of the bill of fare, which included such trifles as red herring, pretzels, Wiener wurst and sauer kraut, Limburger cheese, etc.

Owing to an oversight by the secretary no notice of a meeting for the club last Thursday was sent out. In consequence there was no quorum present, but as there is some very important business which should be acted upon at once, a special meeting was called for Thursday next, August 2. Elections of officers to fill vacancies caused by resignations will be held. Members are urgently requested to attend.

Recent visitors: Mr. S. B. Parsons,



INTERIOR OF PANTHEON.

DECORATIONS AT THE FUNERAL OF THE LATE PRESIDENT OF FRANCE



AT THE PALACE OF THE ELYSEE

DECORATIONS AT THE FUNERAL OF THE LATE PRESIDENT OF FRANCE.

Superintendent of Central Park, New York; Harry Balsley, Detroit, Mich.

The "Chicago wholesale Florist Club" has been organized, its objects being "To cultivate social relations, afford mutual protection against dead-beats, delinquents and frauds, and advance the interests of the trade." The officers are Flint Kennicott, president; Geo. Harrer (of Niles Center Floral Co.), vice-president; Geo. Klehm, secretary and treasurer. Other members are J. B. Deamud & Co., Corbrey & McKellar, Olsen & Hughes, Geo. Piepgras, A. G. Prince, A. L. Randall, Reinberg Bros.

Philadelphia.

The man who is in prison for stealing from a florist and who tried to commit suicide a week or so ago was working for Messrs. Myers & Santman of Wyndmoor at the time of his arrest. Habermehl & Brother of 22nd and Diamond had been on the lookout for him for some months, he having stolen $75 worth of plants from them while in their employ last fall. Messrs. Myers & Santman say that he was a good worker, being very industrious. They have found out since he has gone that they also were being systematically robbed, and many little things lost and missed have been found to have gone through his agency.

Mr. Robert Craig has also had some experience in this line recently. For the past year or two he has been missing tools, particularly valuable steam fitting implements and other articles that could be conveniently carried away. Finally Charles Calnan, a trusted employe who was about to leave, was suspected and on being arrested and his house searched a great number of the missing tools were found. He is now awaiting trial.

Harry Waterer has returned from a visit to his home in England. He reports having had a very good time. During his stay he saw some very fine carnations, much larger than fine flowers here. They were borne on good stout stems from 8 inches to a foot in length, but each flower had to have a small rubber band around the calyx.

S. S. Pennock is now handling short white carnations by the bushel.

C. J. Pennock of Kennett has planted about an acre of carnation Mrs. Fisher, which he finds is a good summer blooming variety. From the way they are coming it they would seem to be as free as balsams; 50 cents per hundred is the price, but if 500 to 1,000 lots are wanted a little whispered consultation takes place and the dealer generally goes away satisfied.

Mr. Wm. F. Eaton of Girard avenue is all smiles. It's a boy. Congratulations, Billy.

Business the past week has been fairly good for this season. The heat has been something terrible. The ground about here is very dry and parched and rain is badly needed.

James Verner has moved his establishment from Darby to Lansdowne. It was not a very laborious undertaking, as it never existed in Darby except on paper.

K.

Boston.

Inquiries regarding the bedding plant trade in this section elicit the fact that in general this branch of the business has been more unsatisfactory this season than for years previous. The season was shorter, prices lower and the general demand not up to the average. The prices at auction showed a decided fall throughout the list.

Owing to a light crop of Southern fruit and vegetables all the peddlers in the city turned their attention to selling plants, and knowing nothing about the trade slaughtered prices early in the season and recovery was impossible.

The hydrangea seems to have gone where the agaves went a few years ago, "into innocuous desuetude" as one grower puts it, and the palm and the rubber are spoken of as likely to take its place. Taken as a whole, considering the low prices and the very slow collections the bedding plant trade for 1894 has not left a very brilliant record.

Saturday, July 28th, was sweet pea day at Horticultural Hall. The display was not as extensive as on some former occasions but those that were shown were very fine blooms. With the exception of a small collection from the Bussey Institution in which the flowers were shown with the pea foliage, none of the exhibits were entitled to any credit for the manner in which they were put up. Some of them could not be much worse had they been arranged by a five year old child. H. B. Watts was awarded first prize for display of named varieties and F. H. Blake first for general display.

Nothing finer in the line has been seen in this hall for a long time than the collection of sixty varieties of petunias shown by L. W. Goodell. The advance shown in substance and size of flower and novelty of coloring since Mr. Goodale made his last exhibit three or four years ago was something remarkable.

W. J. Martin, gardener to N. T. Kidder, was awarded the Society's silver medal for an exceptionally well grown and flowered plant of Ixora Dixiana, which occupied a central position on the stage and attracted much attention. A dish of enormous mushrooms, a rare sight at this season, won for Mr. M. J. Murphy a first-class certificate of merit. Mr. Roy showed several good bunches of hot house grapes.

N. F. McCarthy and W. H. Elliott will

go on a cruise on Mr. McCarthy's yacht on August 3. Their destination is Nova Scotia, where they expect to spend a week camping in the woods. The last time Mr. Elliott camped out he slept with his feet too near the fire and burnt his moccasins off.

Trade in cut flowers is exceedingly dull. There is nothing doing except a little funeral work. Bar Harbor, which has in former seasons been a good July customer for Boston, is sending for disposal in this market Laings, Brunners and Neyrons which beat anything that can be grown in midsummer here. Geo. A. Sutherland is receiving them.

Mr. Michael Barker, for some years employed at the Harvard Botanic Garden, is leaving that place to accept the position of superintendent of the experiment grounds at Cornell University. Mr. Barker hopes to find a way to be of some service to the commercial growers in his new charge.

A very welcome visitor to Boston during the past week was Prof. J. F. Cowell of Buffalo, who was making a little tour of inspection of the Arnold Arboretum and the Harvard Botanic Garden.

Cincinnati.

No use talking about business, as that is an unknown quantity in this market now. The great event has come and gone, but with pleasant recollections. I have reference to the first annual outing by the Cincinnati florists, held at Woodsdale Island Park, Thursday, July 26. One special train of six coaches and baggage pulled out of the C. H. & D. R. R. depot at 9:05 a. m. and by the time we reached Lockland, "the home of Frank Pentland," we had on board 350 people, including the growers, store men, their wives, children and sweethearts. We arrived at the Island at 10:30. A short description of Woodsdale will not be out of place. It is situated on the banks of the big Miami river and Miami canal, 35 miles from Cincinnati, amid handsome old oaks, oleanders and flower beds; inland is a beautiful little lake for row boats, at the west end of the island is the pony track, while at the east end is the base ball park. The committee composed of Ben George, William Murphy and E. G. Gillett had mapped out a program for the day and were busily engaged putting same into execution. The first event on the program was game of football; sides were chosen by Otto Walke and E. S. Johnston, and P. LaFever tossed the ball. Next in order was the quoit pitching contests under command of Colonel Thomas Jackson of Covington, Ky. For this was given a solid silver cup suitably engraved; this prize was won by Robert A. Murphy of Delhi, O. Next was the bowling contest; silver cup to party making largest score with three balls. In this contest there were 55 entries; the winner was Albert Heckman, Covington, Ky. After dinner donkey race was called; 5 entries, Albert Heckman winner. At 2 p. m. the boy's foot race was called. Prize 50 cents won by Willie Sinfoot of College Hill. 2:15 p. m. foot race open to all, and won easily by Chas. Critchell against a dozen contestants. Prize a florist budding knife. 2:20 p. m. foot race for little girl, prize a bisque doll, and won by Jennie Kallath; 2:30 p. m. foot race for "florists only," won by Chas. Critchell, who can run like a deer. Next foot race for young ladies, prize sterling silver spoon, and won by a long reach by Miss Carrie Nolte. At 2:50 p. m. the fat man's race was called. To see these monsters toeing the scratch awaiting the word was a sight worth going miles to see, and then to see them sprint after they got the word. I will say right here that the temperature was about 85°. This race caused no end of amusement especially to see Geo. Walker, janitor of our floral market, run. He fairly cut the air, but the race was won by Ed. Snider, Walker a close second. This prize was a leather medal. This ended the foot races and after everybody had taken a glass of —— *water* we proceeded to the river to watch the regatta, the prize in this race being a silver cup, J. D. Garnson winning by half a length; Wm. Critchell a close second; Ed. Jordan won the leather medal for coming in last. The greatest event was the ball game between the growers and storekeepers. For this we also had a prize, a silver cup to the player making the largest number of base hits. This was won by Voss of College Hill, and the game won by the growers; score 13 to 4, 5 innings; umpire Chas. Rentz. To see Will Murphy of the growers' team sending in the balls from the pitcher's box was fun. He fairly made monkeys of the store boys, and to see Theo. Bock's whiskers splitting the air as he tried to make first base is a sight never to be seen again "until next year."

At 6:45 p. m. our train steamed out for Cincinnati, carrying 350 tired people, all declaring they never had so good a time and all stating that the first annual outing of the Cincinnati florists was a success. G.

St. Louis.

After weeks of hopeless longing a good heavy rain has put an end to the most protracted drouth that has been known here for years; for more than a hundred days there has not been precipitation enough at any one time to be called a rain, and the condition of crops can better be imagined than described. Grass in many places outside the reach of water is dead, and many ornamental trees and shrubbery have yielded up to the lack of moisture.

The first picnic of the florists of St. Louis and their friends came off at Meramec Highlands on the 25th, and from all accounts may be pronounced an unqualified success; a few of the details did not work as smoothly as expected, owing to the rules prepared by the committee not being quite definite enough. Outside one or two small jars, however, everything was thoroughly enjoyed. The committee having the matter in charge arrived on the grounds early in the day, accompanied by quite a few florists, and had things in good shape to be disposed of when the majority arrived. The athletic events were the first things to be decided, and owing to the number of entries in all of the events the greater part of the afternoon was spent in watching the struggles for supremacy. In the first event, the 100-yard run, a surprise was in store for the boys in the shape of Mr. Sutton, who came prepared to win, equipped with spiked shoes and a strong backing; the question was raised as to his eligibility but was waived on Mr. Connon's statement that he was all right. The preliminary heats were won by Sutton, Teasdale and A. Y. Ellison; and the final by Sutton, with Teasdale a close second. The running broad jump with seven entries narrowed to a contest between C. Beyer and R. F. Tesson, Beyer winning with a jump of 15 feet 11 inches. The potato race for boys and girls 15 years and under resulted on the first trial in a tie between Harry Ellison and Oscar Benecke; in the final Oscar Benecke won, and imposed upon Jules Benecke the task of getting a croquet set home. The slow race of 100 yards gave an excellent illustration of how slow a florist can become, and at the same time neither stand still or go backwards; it was won by C. Juengel, there still being several back of him at the time limit, the cane won being carried proudly during the balance of the day. The sack race was given over to the boys entirely when the number of entries was seen, and resulted in a win for Fred Weber, Jr. The three legged race was the most amusing feature of the afternoon's sport, as well as being the most hotly contested event on the program; two preliminary heats were run, the first being won by C. Beyer and A. Bruner, the second by C. C. Sanders and R. F. Tesson. The run off to decide the winners resulted in a tie, both having reached the tape at the same time, necessitating another trial later in the afternoon, in which Beyer and Bruner were the winners. The 50-yard run for boys 14 years and under was won by H. Ellison, and the 50-yard dash for silver cake stand, open to ladies, was won by Mrs. Bruner. The egg and spoon race for ladies and girls was captured by Sadie Young, the prize being a handsome fan. Sides were chosen by C. Young and J. Kunz, and in the pull that followed Kunz's team won, mainly owing to the heavy work of Herzog. When the above events were finished a photograph was taken of a majority present, and an adjournment was held for supper, after which the bowling contest commenced. Owing to the number of entries it was found impossible to roll more than one game, so the prize provided for the highest average was given to the second highest individual score. The scores made all through were poor, the winning scores being as follows: first, C. Young, 190; second, R. Beyer, 169; the booby prize going to J. Kunz, for a total of 40 pins. The dancing and boating were much enjoyed during the afternoon and evening, and when train time came all united in pronouncing it a most enjoyable day, and spoke of the affair as a fixed yearly event. The train as it pulled into and out of Gratiot station was given an illumination by Mr. Herzog, whose greenhouses adjoin the depot, and which was responded to by the boys.

E. H. Michel and wife are visiting in Texas. Will Young leaves for the east, via Cincinnati and Springfield, on the second. R. F. T.

Cleveland.

The down town florists have signed an agreement to close their respective places of business at seven p. m. excepting Saturdays, and at 1 p. m. on Sundays for the summer months only. This is a move in the right direction. Only the hours on Sunday are too long yet. We have known some of the leading stores not to have over one to two customers come in after six o'clock for days in succession and said customers only buy a carnation or rose for the button hole, which of course does not pay for the gas, not to mention the heating the store gets from the gas, spoiling what stock there is on hand outside the refrigerator.

Mr. A. Campbell, on Cedar avenue who lost nearly all his glass during the severe hail storm last spring, has offered his property for sale and will quit the business entirely providing he can sell, otherwise he may patch up the old houses again.

Mr. Charlesworth is busy tearing down his houses on Sibley street, and will build eight or nine houses on the lot adjoining his greenhouses on Doan street. His down town office will remain on Sibley street a few doors farther east.

W. T. Long of Arcade Rose Houses fame, has forsaken the trade and turned his attention to other business. The houses built recently by him on Doan street are empty and in the hands of a real estate agent.

The Cleveland Floral Co. have added five good sized houses and will build three more. This is the plant established by J. C. Gooding. Frank Wiedner is the florist in charge.

One of the best kept of the smaller establishments in this neighborhood is the snug place of Mr. Fred Aul, in Glenville. Everything is in apple pie order. There are five good sized houses and two acres of fine soil nicely located. His residence is heated throughout with steam furnished from the boiler at the greenhouses. Mr. Aul bought this place some two years ago, and since then it has more than doubled in value. L. F. D.

Buffalo.

There is nothing very new in our line since my last. Weather warm and dry, but not so dry as many other localities. Our stores are gay with Japan lilies, gloxinias, Beauty roses, water lilies and mud turtles. All of it is mostly for display, for business is naturally dull, but scarcely duller than this time in former years.

As Rochester did not seem to care to play the Buffalo boys this year at the national game we had to get up a game among ourselves, East Side vs. West Side. It's humiliating to have to announce that the plebeians from the East Side bested the West, but you know the element from which both ball players spring. There never was a better general turn out of the trade on any previous occasion. With a few insignificant exceptions everybody was there, from the veteran W. J. Palmer down to the smallest errand boy, embracing all ages and sexes, color and conditions of life. The score was 17 to 6 in favor of the Dutch. A detailed account of the game would not be of any interest; suffice it to say that the battery for the East Side were S. Jones, pitcher, S. A. Anderson, captain. The latter wore a bathing suit. Most of the ladies wore blue glasses on that account. For the West Side W. Belsey, Scott, pitcher and Phillip Scott captain. The battery work was on both sides far in advance of the play of any of the rest. Mr. D. B. Long was in right field and the only ball coming his way he handled as gently as he would a Mme. Testout rose, so that it escaped between his legs. Mr. Mepsted sat on the refreshment box most of the time, and as the weather was fearfully hot he became perfectly exhausted opening the lid. Altogether it was a most enjoyable afternoon, and it took place at Elmwood Beach, one of the many summer resorts of the Niagara river on Grand Island.

Four beautiful girls from Chicago delighted us with a call last week. They were Miss Anna Kreitling and the three Misses McDonald. They were out to see Buffalo, Toronto and the Falls. There is courage and self-reliance for you. They were having an excellent time all to themselves. Nothing but an important business engagement prevented the writer from having the honor of showing them over at least part of our beautiful city. We sincerely hope they arrived home in as good spirits as they were blessed with in our short interview. Their account of business in Chicago made us realize that we still live.

It's quite indefinite how many from here will go to Atlantic City. At present it looks like a good delegation. They will leave at 10 p. m. Sunday on Delaware, Lackawanna and Western R. R. via Philadelphia. Friends and acquaintances are respectfully invited to attend. W.S.

WESTERLY, R. I.—S. J. Reuter has nearly completed several new houses at his place on Beach street.

ELLIS, MASS.—There has been a change in the firm of Peter Fisher & Co., and it is now Fisher & Aird.

BROOKLYN, N. Y.—Henry Meyer has moved back to his old place at 60 Harman street, where he will continue the business, confining himself to retail trade.

OSHKOSH, WIS.—Isaac Miles & Son have just completed two houses 67x20, and one smaller. They will heat with a Hitchings boiler.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By experienced gardener, either private or commercial. Address H R, 285 S. Green St., Chicago.

SITUATION WANTED—As gardener; 15 years' experience in Scotland and America; age 35; single. Good references. WM. WATT, Hallesborough, N. Y.

SITUATION WANTED—By young German florist, private or commercial; 10 years' experience; sober and reliable; good worker. Address E. BREIER, 139 Melrose St., Chicago.

SITUATION WANTED—By a first-class assistant; thoroughly competent; 4 years in commercial place East preferred (Philadelphia). Address ASSISTANT, care American Florist.

SITUATION WANTED—On or before Sept. 1, by competent florist as first assistant or to take charge. Best of references. For particulars please address with your terms to FLORIST, care Mr. Selby Myers, St. Joseph, Mo.

SITUATION WANTED—As foreman or assistant by a thoroughly experienced florist; age 25, single, with 10 years' experience. Can furnish first-class references. State particulars in answer. Address C H, care American Florist, Chicago.

SITUATION WANTED—By young man, 28; abstainer, energetic, as foreman or under, commercial or private; cut flowers, bedding, foliage plants and ferns. WM. J. POTTER, 615 Elmwood Ave., Niagara Falls, N. Y.

SITUATION WANTED—By a practical gardener and florist; commercial or private place; 16 years' experience in all branches; sober, reliable. Best references. Address GARDENER, care John Locher, Frankly St., Guttenberg, N. J.

SITUATION WANTED—By a young man, 26 years old; German, can speak English; in commercial place; well up in roses, carnations, violets, stove and greenhouse plants. First-class references Address BERNHARD SCHELLER, box 147, Soldiers' Home, Leavenworth, Kan.

SITUATION WANTED—By a practical florist with life experience; age 30; well posted in roses, chrysanthemums, palms, ferns and general greenhouse stock. Good references. State wages Address S. WEBER, care Erdmans, Peachtree and Pryor Junction, Atlanta, Ga.

SITUATION WANTED—By experienced grower of roses, etc., well acquainted with all the requirements of retail and wholesale trade, wishes to take charge of commercial place for percentage of profits, or would like to lease, if on easy terms. Address H P, care American Florist, Chicago.

SITUATION WANTED—By young man; age 22; experienced in growing roses, carnations, chrysanthemums, violets, and general stock. Understands steam. Good propagator, and not afraid to work; sober and reliable. All references. Address L G B, 213 Mt. Elliott Ave., Detroit, Mich.

SITUATION WANTED—A practical florist and gardener of executive ability and experience on horticultural matter, fully posted on all the routine and requisites of first-class commercial places, inside and outside matter, general propagation, including nursery stock, such as roses, shrubs, conifer, etc.; want situation accordingly; best references. Address PRACTICAL, care Am. Florist, Chicago.

WANTED—Florist, reliable, sober, for roses and general stock. State terms and experience. J. T. WILLIAMSON, Prop'r La Rose Gardens, Memphis, Tenn.

WANTED—To correspond with a young man who is a good decorator and designer, competent to fill position in a retail store. Address WESTERN, care American Florist, Chicago.

FOR RENT CHEAP—Greenhouses, stocked for cut flower growing. J. H. ALLEN, Summerdale, Ill.

FOR SALE CHEAP—Large second-hand florist's ice Box, value about $75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—At ⅓ cost, a Rider hot-air pumping engine in good order. WILLIAM H. BARNES, Box 845, Independence, Kan.

FOR SALE OR RENT—Greenhouse, 2000 square ft. glass. For particulars inquire of THEO. NOEHLE, Green Bay, Wis.

FOR SALE—1500 feet 4-inch pipe—Hitchings. Price on application. P. R. QUINLAN & Co., 904 W. Genesee St., Syracuse, N. Y.

FOR SALE OR RENT—15,000 or 30,000 square ft. of glass. For particulars inquire of A. T. JACKSON, Station X, Chicago.

FOR SALE—1000 feet of 4-inch cast iron pipe and fittings, as good as new. MRS. GEO. WALDBAUER, Saginaw Mich.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Cost $250. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR RENT—A first-class commercial place in auburb of Chicago, containing 15,000 square feet of glass, well stocked with best varieties of forcing roses. Address RENTER, care Olsen & Hughes, 66 Wabash Ave., Chicago.

FOR SALE—On account of sickness, greenhouses of 3500 feet of glass, heated by steam; all in good condition. Also dwelling house and ground. Good retail cut flower and bedding plant trade. 6000 inhabitants; no other florist; three minutes to railroad station; thirty minutes to Broad street station, Philadelphia; 34 trains daily. Or, will sell greenhouses and give a lease on dwelling house and ground. Only those meaning business need to apply for particulars. Address ROBERT CRAIG, 49th and Market Sts., Phila., Pa.

FOR SALE—A first-class florist establishment that has netted 30 per cent on the price asked for the place, and is still growing, can be made to pay twice that much; on account of poor health was unable to grow a sufficient stock to supply the demand. No opposition. In a wealthy and growing college city with over 6,000 inhabitants, in central Missouri. Greenhouses and everything new, with land 124 by 240 feet near the public square. Price only $4,800 if sold in the next thirty days. For more particulars write at once to E. H. MICHEL, Magnolia and Tower Grove Aves., St. Louis, Mo.

FOR SALE OR RENT.

Two large greenhouses 100 feet long by 18 feet wide, containing 5000 feet of glass; built two years ago, with all modern improvements, by the late John F. Nitterhouse, practical florist. Greenhouses situated ½ mile from town; convenient to two railroads, and stocked with roses, carnations, etc. Possession given Oct. 1st. For further particulars address MRS. S. J. NITTERHOUSE, Waynesboro, Franklin Co., Pa.

Greenhouses to Rent.

At Moorestown, Burlington Co., New Jersey, nine miles from Philadelphia, on railroad, four houses, 10 000 feet of glass, two boilers. Sp'endid opportunity.

JOS. T. SULLIVAN, Moorestown, N. J.

For Sale or Rent.

One of the largest and most successful plants in the State of Ohio, consisting of about 50,000 feet of glass, with three or six acres of fine land; houses all in the best of order, and as good as new; adapted to cut flowers. Reasons for selling, the increasing demand for the Standard Ventilating Machines demands more of my time than I can possibly give it and run the florist business. For particulars address E. HIPPARD, Youngstown, Ohio.

FOR SALE.

Six (6) greenhouses, two hot water boilers, about 2000 feet 2-inch wrought iron pipe, valves, etc., lot of hotbed sash, frames, benches and about 35,000 flower pots. The entire plant will be sold at a very low cash price, as the whole must be removed off the premises before Sept. 1st. For particulars address L. R. MUNN, Station C, Brooklyn, N. Y.

FOR SALE CHEAP.

Six small greenhouses in the best health resort for invalids in the United States, heated with hot water; good retail trade, close to Casino and Club House, two acres of ground, six-room cottage plenty of room to increase plant, expense of running small, no incumbrance on property; reason for selling, too old for the business. For particulars address WM. M. FLINN, FLORIST, Box 296. COLORADO SPRINGS, COLO.

THE AMERICAN FLORIST

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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remembe it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

OBITUARY.

At Woburn, on July 25th, aged 49 years 10 months, after a brief but most painful illness, died Mr. Edwin Gridley Bridge, of cerebritis.

The deceased was born in Boston, but some years ago moved to Somerville, N. J., where he had a large farm and was also in the ice business. Three years ago this fall he returned to Massachusetts on account of his health and settled in Woburn, where he bought a nice property and erected a modern style carnation house, from which during the last two winters he has cut some of the finest carnations that have been sent into Boston.

He was a most enthusiastic, painstaking grower, giving his whole attention to his business, a firm believer in the bench system, careful manuring, and in his own words "Light, light, light."

It was a treat to visit him, for one was always sure of a hearty welcome and his "place" was ever the picture of neatness and cleanliness inside and out, and in the course of the conversation, one could not help but pick up several useful ideas from so close an observer.

He was honored and respected by all who knew him. The craft can ill afford the loss of such a man. I.

Water Snails.

Aquatic plants have their enemies in the line of various insects, parasitic and other pests, as do other plants, terrestrial and epiphytal. Cultivators are sometimes confronted with what they least expect. The water snails hold a dual relation to the aquarist and cultivator of aquatic plants. The common water snail (Linnæa auricularius) is a most desirable species, and a few specimens in tubs and tanks, and especially such where seedlings and young nymphæas are grown, will prove very beneficial, and are preferred to fish, as they will keep the water and the young plants clean of algæ, which at times is very troublesome, and numbers of plants are lost in consequence. They will feed on dead leaves and decaying vegetable matter, and never eat a green leaf. They are benefactors and among the cultivator's best friends; this can not be the species your correspondent is desirous to get rid of, but there are several species, and one which I have met eats live plants as well as algæ and decayed vegetable matter. It has an especial liking for Aponogeton distachyon, limnanthemums, and some varieties of nymphæas, which is probably the species referred to. The only way to exterminate them is by hand picking and a goodly number of gold or other fish in the water. These will eat the larvæ, thus cutting off the increase, but as they can not eat the mature snail the only resource is hand picking. Fish will also eat the larvæ of Linnæa auricularius, so the cultivator must use discretion, and not allow fish in tanks where he wishes to preserve the snails. WM. TRICKER.

Chicago to Atlantic City.

The Chicago Florist Club has secured a special low rate to the S. A. F. convention at Atlantic City, over the Pennsylvania railroad. Train leaves Chicago at 3 p. m. Sunday, August 19, passing over the Allegheny Mountains in daylight and reaching Atlantic City Monday evening. Florists in the west and northwest who wish to join the party are cordially invited to do so. Berths may be reserved and further information obtained by addressing the chairman of the Chicago Club's committee, Mr. G. L. Grant, 322 Dearborn street, Chicago.

Cincinnati to Atlantic City.

Satisfactory rates have been obtained and quite a party will go from here. For full information address E. G. Gillett, 134 Walnut street, Cincinnati, O.

St. Louis to Atlantic City.

The St. Louis Club has secured very favorable rates. For full information address the secretary, Mr. E. Schray, 4101 Pennsylvania avenue, St. Louis.

A VERY complete exhibition of fruit will be made at the St. Louis Exposition from September 5 to October 13, 1894. It will be in charge of the Missouri State Horticultural Society, of which L. A. Goodman, Westport, is secretary.

Going to the Convention in Atlantic City?

You'll miss it if you don't, and your family should be with you, as we will be on hand with a display of

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and wish to show them to everybody. Meantime you can have a catalogue of them by applying to

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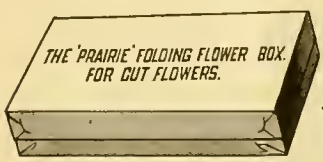
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Roses	1.00@ 3.00
" per 1000	$5.00@$10.00
" Beauty,	2.00@12.00
Carnations	.50@ 1.00
" per 1000	$3.00@$5.00
Valley	3.00@ 4.00
Harrisii	4.00@ 6.00
Sweet peas, per 100 bunches	50c@$1.00
Smilax	6.00@ 8.00
Asparagus	25.00@35.00
Adiantum	.75@ 1.00

BOSTON, July 28.

Roses, Niphetos, Gontier	1.00@ 3.00
" Perle, Sunset	1.00@ 3.00
" Bride, Mermet	2.00@ 8.00
Carnations	.25@ .75
Harrisii	6.00@ 8.00
Lily of the valley	4.00
Sweet peas	.10
Asters	50@ .75
Gladiolus	4.00@ 5.00
Adiantum	1.00
Smilax	12.00@15.00
Asparagus	50.00

PHILADELPHIA, July 28.

Roses, small	2.00
" large teas	3.00@ 4.00
" Beauties	8.00@15.00
Carnations	.50@ 1.50
Valley	4.00
Smilax	10.00@12.00
Asparagus	50.00
Harrisii lilies	4.00@ 6.00
Sweet peas	.50
Cornflower	.25@ .50
Cattleyas	35.00@40.00
Adiantum	.75@ 1.00

CHICAGO, July 31.

Roses, La France, Meteor	3.00@ 4.00
" Kaiserin	3.00@ 4.00
" General assortment, per 1000	$5@$10
Carnations, long	.25@ .60
" fancies	1.50@ 2.00
Harrisii	8.00
Candidum	1.00@ 3.00

ST. LOUIS, July 28.

Roses, Perles, Niphetos, Wootton	2.00@ 3.00
" Bride, Mermet, Brideamaids	2.00@ 3.00
" Meteors	2.00@ 3.00
" La France, Albany, Hoste	2.00@ 3.00
" Beauty	5.00@15.00
Sweet peas	.15@ .25
Carnations, long	.50@ .75
" short	.50
Adiantum	1.25
Hollyhocks, asters	.50
Smilax	15.00
Ferns, common, per 1000	$1.25

BUFFALO, July 30.

Roses, Beauties	10.00@15.00
" Mermet, Bride,	3.00@ 4.00
" Meteor	3.00@ 4.00
" Perle, Gontier, Hoste	3.00
" Cusin	3.00
Carnations, long	.75@ 1.25
" short	.60
Auratum lilies	12.00@15.00
Lancifolium lilies	8.00@10.00
Longiflorum "	5.00@ 6.00
Gladiolus	5.00
Sweet peas	.25
Valley	3.00
Smilax	15.00@20.00
Adiantum	1.25
Asparagus	50.00

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American Beauty,
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And all other desirable roses, grown especially for summer shipping to seaside and mountain resorts.
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In dull season and busy season.
All the year round.
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Roses Shipped to all points. Price list on application.

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Nebraska Seed Crops.

Under date of July 27th our correspondent reports no rain since July 23rd. There will be acres of corn that will not make anything. Considerable of Stowell's has been injured past recovery, while other kinds are suffering considerably. Vines, especially melons, will do better as they can stand more drought. Cucumbers are suffering most. The vine crops will certainly not be too large this year, and if there is no shortage it will be because of the seed carried over.

ANOTHER REPORT, July 27, from Waterloo, states that a very hot withering wind the past week, with thermometer from 90° to 110°, has done a great deal of damage to the corn crop.

SEED CROPS.—From Rochester we learn that the prospects for beet, beans, turnip and corn in that vicinity are good. The acreage planted to turnip seed is small, owing to the short crop of roots. Beans are unusually promising. Late crops of corn will depend largely on open and favorable fall.

BOUQUET GREEN OR PRINCE'S PINE may be scarcer next year on account of the severe and extended forest fires now raging in that portion of Wisconsin where this stock is largely produced.

CALIFORNIA REPORTS June 27th good crops of nearly everything. Expect to fill orders. Onion harvest will not be on for nearly two months yet, but we do not anticipate a shortage.

A. UNGER of BOEHMER & Co., Yokohama, is passing through the United States on his way home from Europe.

CONVENTION NUMBER.—We shall issue our annual Convention Number August 16. Send copy for advs. as early as possible. No increase in rates.

DO YOU WANT a list of firms in the trade that issue catalogues, with key showing proportion of space given each branch of the trade in same? You will find such a list in our trade directory and reference book for 1894. Price $2.00.

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Grow Swainsona.

The best and most profitable pure white flower grown. Takes the place of Roman hyacinths or lily of the valley, producing spikes of flowers from 4 to 6 inches long, in the greatest abundance the entire year—never out of bloom—lasting well when cut. 100 Swainsona will pay you three times as much as same space in best carnations. No florist should be without this most useful flower. After a trial it will be considered indispensable.

EASY TO GROW.

An exceptionally good and paying cut flower.

Strong young plants, $1.00 per doz.; $6.00 per 100.

Larger ones, $1.50 per doz.; $10 per 100.

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Roman Hyacinths, Lilium Harrisii, Freesias, best in the U. S.

.... New Seed PRIMULA, PANSY, etc.

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READY NOW.

Our prediction of fine bulbs this season is fully substantiated by the stock we have received: Heavy, sound bulbs, sure to please the most critical buyer.

ROMANS. The cream of the crop, at special low figures.

DUTCH BULBS, at prices that cannot help but make them profitable to every florist.

PANSY SEED, "Florist Mixture," ready now. ⅛ oz. $1.00; per oz. $7.00.

Primula, Calceolaria, Cineraria, 50 cents per trade packet.

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NURSERYMAN,

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PALMS, and
ARAUCARIA.

Price list and full particulars on application.

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Out of 2 and 3-inch pots, also transplanted plants out of boxes. Never had as fine and large stock before. Please state number you desire and I will give you the lowest prices. Safe delivery and best satisfaction guaranteed with every shipment. Sample order 10 cts. Terms strictly cash.

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15,000 strong, healthy plants, from 2½-inch pots, $2.00 per 100; $18.00 per 1000. Sample free. Safe delivery and satisfaction guaranteed.

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For cash with order we give 17 3 and 4-in. Palms for $1 (regular price $10), and 34 for $5 (regular price $20). These comprise the best varieties, including Latanias and Kentias.

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3-inch pots. . . . per 100 $4.00; per 1000 $30.00
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3-inch pots. . . . per doz. 75c; per 100 $6.00
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Tuberous Begonias

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1000 IVORY, $3.00 per 100.

Also several thousand in variety, late propagated, just the thing for 4 and 5-inch pot plants. List of varieties and prices on application.

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Per barrel (about 125 lbs.), $2.50. Sample free by mail.

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PANDANUS UTILIS

6-inch pots.....$5 00 per dozen
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Buy FIRST HAND. We will deliver Freesia Bulbs, all charges for transportation paid, as follows:

3-8 to 3-4 inch per 1000, $4.00
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We are now ready to book orders for
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Write for prices, it will save you money.

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P. S.—John Lewis Childs, J. C. Vaughan, Peter Henderson & Co., W. A. Burpee, W. H. Maule, and a few others will please avoid reading this. They don't need any fall medicine!

Hulsebosch Brothers,

OVERVEEN, near Haarlem, HOLLAND.
Bulbs AND Plants

We are now prepared to quote lowest possible prices for next July, August and September delivery.

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BERMUDA SPICE LILY } 7 to 9 in. bulbs, $20 per
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FREESIA REFR. ALBA, 5-16 in. in diam., $2.50 per 1000 in lots of 5000.
" " " Seed, $2 00 per lb.
GLADIOLUS SHAKESPERE, 2½ to 3 inches in diam. $6.00 per 100; $50.00 per 1000.
ZEPHYRANTHES ROSEA, } large bulbs, $2 per
" FLORIBUNDA } 100; $15 per 1000.
" ATAMASCO, $1 per 100; $8 per 1000
NERINE SARNIENSIS } large flowering bulbs, $8
Guernsey Lily, } per 100.
CALLA BULBS, 4 to 6 inches at crown, $7 per 100.
Best var. FRENCH CANNAS, $6 per 100; $40 per 1000.

Above prices are for delivery in New York, thence by Express or otherwise at purchaser's cost. C. O. D. from unknown parties.

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WEEBER & DON,
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FOR **BULB SPECIAL**
See page 1175 July 5th number of the AMERICAN FLORIST.
W. A. MANDA,
The Universal Horticultural Establishment. SOUTH ORANGE, N. J.

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VIOLETS—POT GROWN.

We have a fine stock of pot grown plants, from which experience teaches best results for quality and quantity of flowers can be had:

MARIE LOUISE, SWANLEY WHITE, CZAR AND SCHOENBRUN,
from 2-inch pots, $4.00 per 100; $30.00 per 1000.

Chrysanthemums, young, vigorous stock, just the thing for single stems, in 50 PRIZE WINNING SORTS, $4.00 per 100; $30.00 per 1000.

We still have a few thousand 2½-inch plants, strong, of WHITE LA FRANCE and AMERICAN PERFECTION, at $4 00 per 100; $30.00 per 1000.

Above are two ideal Roses, surpassing most varieties in loveliness of shading, and surpass all without exception for durability in a cut state.

ROSES in best commercial sorts, 2½-inch strong, our selection, $20.00 per 1000. An enormous stock in other departments.

For catalogue and estimates

Address **NANZ & NEUNER,**
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For CHOICE strains of
FLORISTS' FLOWER SEEDS, BULBS, PALMS, ORCHIDS, FERNS, etc.
See our Quarterly Trade Price-List, just published.
PITCHER & MANDA,
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SHORT HILLS, N. J.

PRICES LOWER ON
Bulbs & Plants
OF STANDARD QUALITY.
For Catalogue, address
C. H. JOOSTEN, IMPORTER,
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Grevillea Robusta.

3-inch pots, 10 to 15 inches high, per dozen $1.00; per 100 $8 00
2½-inch pots, " 65c; " $4.00

NATHAN SMITH & SON,
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We Have
5000 SMILAX
to offer at $2 per 100, or $15 per 1000.
Very strong, in 2½-inch pots.
HENRY A. NIEMEYER,
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ASPARAGUS PLUMOSUS NANUS.
Extra fine plants from 5-inch pots, $30.00 per 100.
SMILAX, from 2¼-inch pots, cut back, $2.00 per 100; $15.00 per 1000.
TERMS CASH.
THEO. BOCK, Hamilton, O.

Lenox, Mass.

The reception given the Gardeners' and Florists' Club of Pittsfield the evening of Saturday, July 21, by the Lenox Horticultural Society, was a great success, and was undoubtedly the largest gathering of professional gardeners ever held in Berkshire county.

Twenty-six of the Pittsfield boys came down with Viner's four-in-hand, 45 were present from Lenox and vicinity, and invited guests brought the number up to 80. W. A. Manda, of South Orange, N. J., and Charles B. Weathered, of New York, were present, coming up expressly to attend the banquet. Before the reception the home society held its regular meeting and elected nine ordinary members.

The society was organized February 12, 1894, with 12 members; now the membership numbers 65, and there is $400 surplus in the treasury.

After the business meeting the guests were shown the new rooms the society has just taken in Sedgwick Hall, and which were fitted up expressly for it.

At 9 o'clock the company formed in line and marched to the Bellevue hotel, where a regular English gardener's dinner awaited them. There were four long tables loaded with good things for the inner man and decorated with choice blossoms from the garden, sweet peas predominating. After the contents of the tables had been placed where they would do the most good, and cigars had been lighted, the speeches and fun for the evening began, President Norman presiding. Mr. Russell, of Stockbridge, sang several selections which were greeted with applause. Mr. Huss gave an address of welcome to the visitors. Charles Weathered, of New York, congratulated the society on the work done in the short time it had been organized, and said that in his opinion the garden of Eden was situated in Lenox. He referred to the natural beauties of Lenox and the large number of professional gardeners employed in the vicinity, and said that there was no place east of the Mississippi river where there were so many gardens cared for by professionals as in this vicinity, and that there was need of the two societies. He predicted that in a year the Pittsfield and Lenox societies would be the two largest in the U. S. outside of the largest cities.

Mr. Manda, of South Orange, N. J., spoke of the fine gardens in Berkshire and of the pleasure and good derived from flowers. Mr. Breed, of Captain Barnes' place, entertained the company with a song, and James Clifford and Martin Finaghty told of the great change in the gardens of Lenox in the past 20 years and of the intelligence and skill necessary to care for the Lenox gardens as they are cared for at the present time. Other interesting and lively speakers were Messrs. Meredith, Clifford, Griffin, Wingett, Sencord, Savage and Edwards.

The members of the Lenox society may well be proud of their success as workers and as entertainers.

HOPKINTON, MASS.—H. O. Cheney has purchased the florist business of L. L. Woolson and will remove it to Bear Hill.

COLUMBUS, GA.—Chas. E. Meehan will build a greenhouse 16x160 on Musgrove street.

SALEM, MASS.—McGee, Geary & Co. are making extensive alterations and improvements in their office. An entire new front with plate glass exhibition window has been put in.

PANSIES...

Every Grower Claims the Best.

I am willing to have mine tested alongside of any in the market. Over a thousand florists used them last season, were pleased with them and made money out of them.

Between Sept. 1st and Dec. 1st I will have a MILLION or more plants to sell. They can not be offered in competition with cheap grown seed, but quality considered, are remarkably cheap at the price.

By Mail or Express, prepaid, 75c. per 100; by Express at your expense, $5.00 per 1000. Liberal discount will be allowed on large orders.

An honest sample of the plants will be mailed you on receipt of ten cents, and terms are absolutely cash in advance.

ALBERT M. HERR, L. B. 496, Lancaster, Pa.

ZIRNGIEBEL GIANT PANSIES.

Owing to favorable weather, have been magnificent this season. Never before have we obtained such size and colors; and as usual, wherever exhibited, have eclipsed everything else, receiving also the most flattering testimonials from the leading florists and seedsmen all over the country.

New seed ready now of both the Giant Market and Giant Fancy in trade packets of 2,000 and 500 seeds respectively at one dollar each, with practical directions for growing pansies. Also plants for sale later on.

DENYS ZIRNGIEBEL,
. . . NEEDHAM, MASS.

Pansy ★ Seed.

The JENNINGS STRAIN of high grade Pansy Seed. New crop now ready. Saved with special care from only the very finest varieties and (warranted) first-class in every respect.

THE JENNINGS XX STRAIN.

The cream of Pansies. Grand colors mixed. pkt., 1500 seed, $1.00; 1 oz. $8.00.

The Jennings Strain, finest mixed, pkt. $1.00 about 2500 seed; 1 oz. $6.00; 3 ozs $15.00. No skim milk in this strain. (They are just as good as I can make 'em). To my old patrons I would say they are a big improvement over last season—more variety and finer colors. The best strain for florists either for winter bloom or spring sales; all large flowering.

Black Dr. Faust, finest. pkt., 2500 seed, $1.00
Finest Yellow, black eye..... " " 1.00
Pure White, the best..... ... " " 1.00
Victoria, bright red..... pkt, 1000 seed, 1.00

All my own growth of 1894. Half pkts. of any of the above 50c. Please send money orders or registered letter. Cash with order. Address

E. B. JENNINGS, Wholesale Pansy Grower,
Lock Box 254. SOUTHPORT, CONN.

Roemer's Superb Prize Pansies.

The finest strain of Pansies in the World.

Introducer and Grower of all the leading Novelties.

Catalogue free on application.

FRED ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

Pansies Worth Raising.

THE KIND THAT SELL!!

NEW SEED, perfectly ripe.

One package, 1-8 of an ounce.....$1.00
Five packages..... 4.00

Large quantities at special rates. Cash with order.

CHRISTIAN SOLTAU,
199 Grant Ave., JERSEY CITY, N. J.

EXTRA PANSY SEED.

MAMMOTH SUNBEAM STRAIN.

A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected, better seed plants this year than ever; receive very high praise from my customers no finer strain offered anywhere; florists should sow of it.

Trade pkt., 500 seeds, 25c; 3 pkts. 50c; 6 pkts. $1.00. A pkt. of the new Monkey Face pansy with every $1 order.

JOHN F. RUPP, Shiremanstown, Pa.

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Atlantic Building, WASHINGTON, D. C.

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—FOR OUR—

Convention Number...

TO BE PUBLISHED

AUGUST 16.

NO INCREASE IN RATES.

Send copy to reach us not later than August 11, and as much earlier as possible.

American Florist Co.

P. O. DRAWER 164,

CHICAGO.

ROSES.

1000 MERMETS, 600 NIPHETOS,
1000 BRIDES, 150 TESTOUTS.

All from 2½-inch standard pots. These are in the very best of condition and as large as a great deal of the stock shipped from 3-inch pots.

Per doz. 75c.; per 100 $5.0 ; per 1000 $45.00.

☞ Samples free to intending purchasers.

NATHAN SMITH & SON,
ADRIAN, MICH.

American Beauty.

Three thousand, in 3½-inch pots; extra fine stock, at $10.00 per 100.

For sale, 1000 good, strong plants, including Mermets, Cusin, Wattevilles and Niphetos.

P. R. QUINLAN & CO.,
904 W. Genesee St., Syracuse, N. Y.

ROSES.

Warranted first quality. Surplus stock from 4-inch pots.

	Per 100
PERLES	$ 8 00
MERMETS	6 00
BRIDES	6 00
PAPA GONTIER	6 00

CASH WITH ORDER.

JOHN WHITE, Waverly Place, Elizabeth, N. J.

FORCING ROSES

Strong, healthy, clean plants.

3 and 4-inch BRIDES, 4-inch METEORS,
3 and 4-inch MERMETS, 4-inch PAPA GONTIER,
3 and 4-inch PERLES, 3-inch NIPHETOS.

$4.00 and $6.00 per hundred.

GRAND RAPIDS FLORAL CO.,
GRAND RAPIDS, MICH.

Brides, Bridesmaids, Mermets,

4½-inch.$6.00
ADIANTUM and other Ferns, 3 inch 5.00
SMILAX, 2½-inch 1.50

L. R. MARQUISEE, Syracuse, N. Y.

700 MERMETS, 500 BRIDES,

4-inch, all healthy stuff, at $5.00 per hundred.

BOLANZ BROS.,
208 Wooster Ave., AKRON, O.

Send Advs. Now

FOR OUR

CONVENTION ✳ NUMBER

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NO INCREASE IN RATES.

ROSES.

Surplus stock, clean and healthy.

	Per 100
1500 BRIDES, 4-inch	$8 00
500 BRIDESMAIDS, 3-inch	8 00
300 LA FRANCE, 4-inch	8 00
200 METEORS, 3-inch	8 00
300 WATTEVILLES, 4-inch	8 00

JOSEPH HEACOCK,
JENKINTOWN, PA.

For Sale.

3,200 Bridesmaids; 2,000 Brides, 3-inch; 600 Brides, 2-inch; 700 Albanys, 3-inch; 450 Testouts, 3-inch; 540 Testouts; 1,700 American Beauties, 4-in.; 1000 American Beauties, 3-inch.

The above are all healthy No. 1 stock. What is best cash offer to dispose of them at once?

J. A. MERRIFIELD,
Assignee of J. T. ANTHONY,
2112 Michigan Ave., CHICAGO, ILL.

I HAVE A FEW

Thousand ROSES for winter blooming of the following varieties:

MERMET, THE BRIDE,
PERLE DES JARDINS, AMERICAN BEAUTY,
BON SILENE, NIPHETOS,
WATTEVILLE, METEOR,
and WABAN.

The above are from 3½-inch pots, good, clean, healthy stock, which I offer at $6.00 per 100; $45.00 per 1000.

I also have a few thousand FERNS, as Adiantum cuneatum and Pteris serrulata, from 2½-inch pots, at $3.00 per 100.

JAMES HORAN, Bridgeport, Conn.
Mention American Florist.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

Clean, healthy stock.

MERMETS, BRIDES, SUNSETS,
NIPHETOS, LA FRANCE, PERLES,
MME. WATTEVILLE, BON SILENE, METEOR,
PAPA GONTIER.

Strong plants, from 3-inch pots, $8 per 100; $75 per 1000.

WOOD BROTHERS, Fishkill, N. Y.
Mention American Florist.

ROSES.

Strong, healthy plants, from 2, 2½ and 3-inch pots, price, $3.00, $4.00 and $6.00 per 100.

PERLE, SUNSET, NIPHETOS, MERMET, BRIDE METEOR, WOOTTON, M. NIEL, LA FRANCE, AND ALBANY.

Strong AM. BEAUTY, from 2-inch pots, $1.00 per 100.

JOSEPH HEINL, Jacksonville, Ill.

ROSES.

	2½-inch pots, Per 100	Per 1000
BRIDE	$2.50	$22.50
MERMET	2.50	22.50
GONTIER	2.50	22.50
SOUPERT	2.50	22.50
WHITE LA FRANCE	2.75	24.00
SUNSET, PERLE	2.80	25.00

And all other standard varieties, 2¾, 3½ and 4½-inch pots. Write for prices on what you need.

TERMS CASH WITH ORDER.

THE NATIONAL PLANT CO., Dayton, O.



Silver Cup awarded us for Meteor Roses, exhibited at Madison Square Garden, 1892, for best 25 Red Roses of any variety.

Roses for Winter Flowering.

We still have fine stocks of the leading varieties,

AMERICAN BEAUTY, KAISERIN AUGUSTA VICTORIA AND BRIDESMAID,

Strong plants, out of 3½-inch pots, ready for immediate planting, **$12.00 per 100.**

METEOR, BRIDE, MERMET, MME. CUSIN, NIPHETOS, WOOTTON and PERLE,

Strong plants, out of 3½-inch pots, ready for immediate planting, **$9.00 per 100.**

F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

ROSES. FINE, THRIFTY STOCK.

	2½-inch	3½-inch
AMERICAN BEAUTY	$ 7.00	$13 00
BRIDESMAID	5.00	10.00
KAISERIN AUGUSTA VICTORIA	6.00	12.00
MME. CAROLINE TESTOUT	6.00	12.00
LA FRANCE	4.00	9.00
DUCHESS OF ALBANY	4.00	9.00
MERMETS	4.00	9.00
BRIDES	4.00	9.00
AMERICAN PERFECTION	3 00	10.00
CLIMBING PERLE	3.50	
SENATOR McNAUGHTON	10.00	
WICHURAIANA	4.00	

GREENHOUSES: Western Springs, Ill. **VAUGHAN'S SEED STORE,** CHICAGO: 146-148 W. Washington St.

Roses. Roses. Roses.

Perle, Niphetos, Mermet, Bride, Victoria, Meteor, La France, Albany, Gontier, White La France, Soupert and Bridesmaid, 2 1-2 inch pots, $5.00; 3-inch pots, $6.00 per hundred.

AMERICAN BEAUTY, 2 1-2 inch, $6.00; 3-inch, $8.00 per hundred.

THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

40,000 FIRST QUALITY FORCING ROSES.

READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last two years, and perfectly healthy in every respect, growth from flowering shoots used in propagating. Only selected

GEN. JACQUEMINOT, KAISERIN A. V., SOUV. DE WOOTTON,
METEOR, ULRICH BRUNNER, BRIDESMAID,
3-inch pots, $9.00 per 100. 4-inch pots, $12.00 per 100.

PERLES, SUNSETS, BON SILENE, MERMETS, BRIDES,
SAFRANO, MME. HOSTE, 3-inch pots, $7.00 per 100. 4 inch pots, $10.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

100,000

Roses, H. P. Roses, Rhododendrons, Azalea mollis, Clematis, Hydrangeas (bushy and tree form), Aucuba, Buxus, Acer in sorts, Viburnum plicatum, Dutchman's Pipe, Magnolias, etc.

NOW READY TO GIVE THE LOWEST QUOTATIONS.

THE HORTICULTURAL COMPANY, BOSKOOP, HOLLAND.

Brides, Bridesmaids, Meteors, Hostes, From 2, 3 and 4-in. pots.

ROSES

Cusins, . . . Niphetos, Mermets, La France,

Address for quotations T. W. STEMMLER, **VILLA LORRAINE ROSERIES, Madison, N. J.**

Sole Agents for U. S. for Chas. Macintosh & Co., England, inventors of Vulcanized India Rubber, Extra strong greenhouse hose to withstand high pressure. ¾-in., 3-ply. 15c. per foot in 50 feet lengths.

AMERICAN BEAUTY, TESTOUT, K. A. VICTORIA, BRIDESMAID, BRIDE, MERMET, METEOR, PERLE, SUNSET, CUSIN, LA FRANCE, 3 and 4-inch pots, prime stock, shipped at special florists' rates. Packing light.

Write for prices, including delivery to your Express office. **A. S. MacBEAN, Lakewood, N. J.**

ROSES.

MERMETS	2-inch,	$3.50 per 100
BRIDES	2-inch,	3.50 "
NIPHETOS	2-inch,	3.50 "
PERLES	2-inch,	3.50 "
ALBANY	2-inch,	3.50 "
WOOTTONS	2-inch,	3.50 "
LA FRANCE	2-inch,	3.50 "

BAKER BROS.,
P. O. Box 72. KANSAS CITY, MO.

ROSES.

Mermets, Cusins Watteviles, Hoste, Meteor and La France, $3.00 per 100.

Strong American Beauties, $5.00 per 100; $40.00 per 1000. 500 at 1000 rates.

☞Special prices on quantity. Let me price your lists. Cash with order.

ROBERT F. TESSON,
West Forest Park, St. Louis, Mo.

Clifton, N. J.

Clifton's chief product in the past has been American Beauty roses. In fact, no better Beauties are grown anywhere than those that hail from Clifton. But judging from present indications it will not be a long time before the Beauty will be obliged to share the honors with a rival, and Clifton will claim additional distinction as the great center for the aquatic plant industry in America.

The pretty little ponds originally started for individual pastime and pleasure by Mr. S. C. Nash have under the care of Mr. Wm. Tricker, with whom Mr. Nash has recently associated himself, been still further improved and beautified during the present season, and now offer a treat well worth a long trip to see.

Aquatics, from their beauty and variety as well as their association with the water and the vacation season, have always maintained a strong hold on the affection of flower lovers, and now that their usefulness has been so greatly extended and their only drawback removed by the acquisition of numerous afternoon and night bloomers it follows that the increased favor and prominence which they have attained in recent years will prove to have been not a transient fancy, but really only the beginning of a permanent popularity which is bound to increase rapidly.

The two gentlemen interested in the venture are enthusiasts on aquatics, and would undoubtedly be willing to miss a meal any time for the privilege of watching a Victoria regia open its blossoms. Go there at any time of the day at this season and you will find them at the ponds deep in contemplation of Marliaceas, Laydekeris, dentatas and Victorias, trying to decide as to whether the muskrat is a nuisance because he eats the nelumbiums or is a blessing in disguise because his depredations prevent the nelumbiums from taking possession of the whole territory to the exclusion of everything else; or, if at the houses you will find them carefully poking in the tubs among the tiny seedlings, keeping a sharp watch on black flies, algæ and snails and speculating as to the possibility of discovering or training a fish with sufficient good judgment to eat the destructive snail which hails from Long Island and at the same time spare the good and useful little snail which belongs in New Jersey.

The ponds devoted to the hardy aquatics are now a little past their best, while those containing the tender nymphæas and Victoria regias are approaching the height of their season. The variety cultivated is very extensive, and Mr. Tricker has a large number of hybrids which will presently be introduced to the trade. His efforts in hybridizing are devoted mainly to the hardy kinds.

The ponds are naturally very picturesque, being fed by abundant springs and bordered by native bog-loving plants in great profusion. The surroundings have been further beautified by planting ornamental reeds, grasses, irises, musas, cannas, asclepias, ricinus, etc. The number of visitors is quite large, and they all come away delighted with the exhibition and firm believers in aquatics. Mr. Tricker will have something to say on the subject at the Atlantic City meeting, and that it will be interesting is a foregone conclusion.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book.

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Send copy to reach US not later than August 11, and as much earlier as possible.

AMERICAN FLORIST CO.

P. O. DRAWER 164. CHICAGO.

ROOTED CUTTINGS

COLEUS, 10 kinds by mail.....60c per 100
" 12 kinds by express..$4.00 per 1000
ALTERNANTHERA P. Major by mail.....50c per 100

CASH WITH ORDER.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

Prices Lower Than Ever.

Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpleri, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to $5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

For general Japanese stock apply to

F. Gonzalez & Co.,
303 to 312 Wayne St., SAN FRANCISCO, CAL.
Mention American Florist.

Cyperus Alternifolius.

3½-inch pots, per doz. 75c; per 100 $6
2½-inch pots, " 60c; " $4
2-inch pots, " 40c; " $3

NATHAN SMITH & SON,
ADRIAN, MICH.

The Water Garden.

Special and Hardy Water Lilies of all colors.
VICTORIA REGIA AND V. RANDI, EURYALE FEROX.
Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc., etc. Nymphæa Laydekeri rosea (awarded a Medal at World's Fair); most charming of all the HARDY Lilies; $2.50 each.
Other Columbian Novelties see catalogue.

WM. TRICKER & CO., Clifton, N. J.

CELERY PLANTS

WHITE PLUME, GIANT PASCAL, GIANT GOLDEN HEART and GOLDEN SELF BLANCHING.
Field-grown plants, $1.25 per 1000.
The New PINK PLUME, transplanted plants, $3.50 per 1000. Cash with order.
Sample mailed free.

C. M. GROSSMAN, Wolcottville, Ind.

"HELEN KELLER"

The new Carnation; pure white, delicately marked with red.

Price for well Rooted Cuttings: $3.00 per dozen; $12.00 per 100; $25.00 per 250; $90.00 per 1000. 500 at 1000 rate. Orders may be sent either to

JOHN N. MAY, Summit, N. J.
EDWIN LONSDALE, Chestnut Hill, Phila.

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

FRED. DORNER & SON,

Carnation Growers,

LA FAYETTE, IND.

CARNATIONS

Rooted Cuttings all sold or planted out. Field plants for sale in the fall.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

TESTED and NEW CARNATIONS.

FERNS.

FISHER & AIRD,
ELLIS, NORFOLK CO., MASS.

CHRYSANTHEMUMS.

From 2½-in. pots, @ $3 per 100.

STRONG SMILAX, from 2½-inch pots, $3.00 per 100; $25.00 per 1000.
PANSIES, from cold frame, $15.00 per 1000.

Address J. G. BURROW, Fishkill, N. Y.

Carnations a Specialty

Rooted Cuttings and Young Plants sold out. Nice Field-Grown Plants in Sept. Send for prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

THE AMERICAN FLORIST CO.'S

DIRECTORY AND REFERENCE BOOK

FOR 1894

CONTAINS THE FOLLOWING:

1. The names and addresses of the Florists, Nurserymen and Seedsmen of the United States and Canada, the exact branch of the business each is engaged in being indicated.
2. A separate list of firms that issue catalogues, the space devoted to each branch of the business in each catalogue being also given.
3. A list of the names and addresses of superintendents of leading parks in the U. S. and Canada.
4. A list of the principal cemeteries of America at which the arts of the landscape gardener and florist are used in beautifying the grounds.
5. A complete, alphabetically arranged list of Roses in commerce in America, with class, habit of growth, date of introduction, name of introducer, and brief, accurate descriptions of the flower of each. Synonyms are also plainly given.
6. A complete, alphabetically arranged list of Chrysanthemums in commerce in America, with class, and brief, accurate description of each. Synonyms are noted and varieties that are very popular with American growers are designated by a star, and this year's introductions by a dagger.
7. A complete, alphabetically arranged list of the Carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each.
8. Seasonable Hints for the year, arranged in weeks, written by Mr. William Scott, and covering every detail of a general florist business. This is decidedly the most valuable contribution to the literature of the trade ever published. It is written in a plain, practical way, by a man who knows what he is talking about.
9. A historical sketch of the Society of American Florists from its organization to date, including officers for each year and lists of essays read at each meeting, with other information of interest.
10. A similar historical sketch of the American Association of Nurserymen.
11. A similar historical sketch of the American Carnation Society.
12. A similar historical sketch of the American Seed Trade Association.
13. Similar historical sketches of the Florists' Hail Association of America; of the National Chrysanthemum Society of America; of the Florists' Telegraph Delivery Association.
14. A complete list of all National and Local Trade Organizations, with names and addresses of principal officers, time and place of meetings, etc.
15. Statistics of Commercial Floriculture in the U. S. from the last census.
16. Statistics of the Nursery Industry in the U. S. from the last census.
17. Statistics of Seed Growing in the U. S. from the last census.
18. A list of Leading Horticultural Societies, with name and address of the Secretary of each.
19. Full information about Express and Postage rates on plants, shrubs, trees, seeds and bulbs

No less than 270 pages of valuable reference matter in compact form, and all UP TO DATE.

PRICE $2.00 POSTPAID.

AMERICAN FLORIST CO.,

P. O. Drawer 164. CHICAGO.

TRY DREER'S GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia, Pa.

Sunset Seed and Plant Co.

(SHERWOOD HALL NURSERY CO.)

No. 427-9 SANSOME STREET,

SAN FRANCISCO, CALIFORNIA.

HEADQUARTERS FOR

CALIFORNIA-GROWN SWEET PEAS

And other Flower Seeds.

PACIFIC COAST TREE SEEDS

And Native Bulbs.

JAPANESE LILY BULBS

And other Oriental Specialties.

ONION SEED, PEAS, BEANS, ETC.

Write for special contract prices.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms, ORCHIDS, Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants.

A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich St., New York City.

SMILAX.

Plants from last fall; these have a foundation and will begin to run strong at once. $2.50 per 100; $20.00 per 1000.

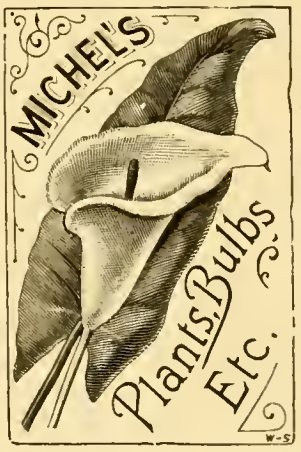
CLEMATIS for Fall Delivery.

Special prices at wholesale, on application. Splendid stock and assortment.

F. A. BALLER, Bloomington, Ill.

TOBACCO DUST. Per 10 lbs 50c; 25 lbs $1.00; 50 lbs $1.50; 100 lbs $2.50. Sample FREE.

Vaughan's Seed Store, Box 688, Chicago.



Write for Wholesale List.

MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address GEORGE WITTBOLD,

1708 N. Halsted St., CHICAGO.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

Please mention the American Florist every time you write any of the advertisers on this page.

Always mention the American Florist when writing to advertisers.

Toronto.

We have been blessed with several good showers this last week, which has put new life into the grass and flower beds, and the parks and gardens are now about at their best. The Horticultural Gardens are looking especially gay and well kept just now. I notice some very tasty beds of Verbena venosa and variegated stevia.

Manton Bros. give up their store on Yonge street this week, their lease having run out. They will grow for the wholesale and market trade now.

The annual picnic of the Gardeners' and Florists' Association will be held at Victoria Park on the 8th of August, when it is hoped that the boys will turn out en masse and endeavour to forget all about the hard times for a few hours at least. The park is on the lake shore a few miles east of the city, and easily accessible either by steamboat or electric cars.

The regular meeting of the association last week was well attended considering the season and that there was no very important business on hand. When once fairly under way though there was no lack of subjects to talk upon. Judges for the chrysanthemum show were chosen, and the secretary instructed to secure their services if possible. The date of the show has been set for the second week in November, subject to alteration if Thanksgiving day does not fall in that week.

In my last week's notes I omitted to mention the groups of plants at the late flower show, which are one of the principal and prettiest features; there is some taste displayed in the get up of these. Mr. J. H. Laing was first again with an arrangement in his usual good taste; every plant tells and shows its natural form. M. J. Cotterill was second with a lot of fine plants, but they were set up in the old style, formal bank, which does *not* show their form and only part of their beauty. Messrs Manton Bros. took third and the Horticultural Gardens fourth, the latter a great improvement in style on former endeavours, but it is wonderful how people stick to the idea that a group of plants must be highest exactly in the middle, and slope down evenly on each side. E.

Nashua, N. H.

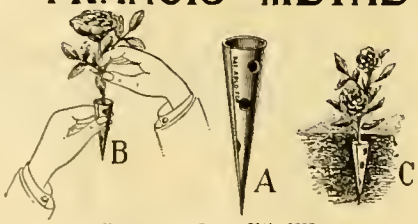
Nashua has had a hail storm. Fortunately for the possessors of glass houses the hail stones were not large and the damage to glass was not heavy. A. Gaedeke & Co. suffered to the extent of one hundred lights more or less. C. H. Blake lost about fifty lights, and G. E. Buxton escaped without much damage. Alfred Chase, a market gardener, suffered severely as to his forcing house and outside crops. Considerable injury was done to trees and gardens. A large elm growing near the front door to Judge Hoitt's residence had one of its sections snapped off, although at the place of the break it was fifteen to eighteen inches in diameter.

Our trade directory and reference book for 1894 contains 270 pages of information of real practical value to every one in the trade. Price $2.00.



WHITE DOVES
FOR FLORISTS.
Largest and finest stock in the United States. Write for prices to
S. J. RUSSELL,
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FRANCIS' METAL STEMMING POINTS.



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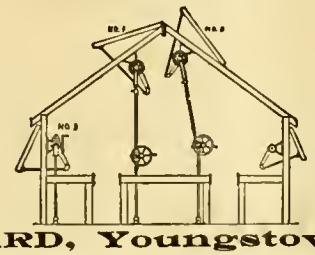
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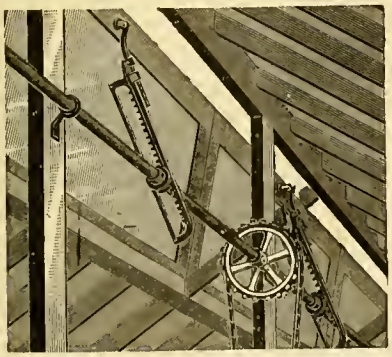
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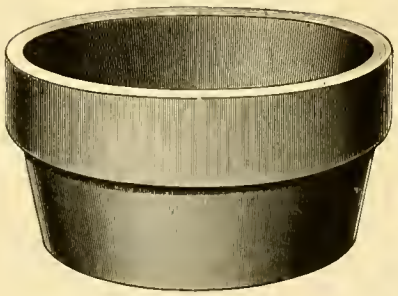
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Respt yours, JNO. BREITMEYER & SONS.

BUFFALO, N. Y., July 17, '94.

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Twenty-six members of the Gardeners' and Florists' Club from Pittsfield enjoyed a tally-ho ride to Lenox on the evening of July 21, the object point being the Bellevue Hotel, where they were invited by the Lenox Horticultural Society to help celebrate the occupancy of their new hall, and their phenomenal prosperity. A large number of the members at Lenox being also prominent in the Gardeners' and Florists' Club, we did not feel at all bashful and our part of the program was carried out to perfection.

About 80 sat down to a substantial dinner. An address of welcome was made by the ever vigorous Mr. Huss, and pledging their loyalty, friendship and good will to the Gardeners' and Florists' Club, which was duly responded to.

Among the speakers were Mr. Charlie Weathered of New York, Mr. W. A. Manda, South Orange, N. J., Mr. M. Finaghty, always enthusiastic, A. P. Meredith, Mr. Clifford, William Griffin, John White, A. H. Wingett, Seacord, Savage and Edwards. Several good songs were intermingled and a very pleasant night was spent, and the Pittsfield boys were proud for the first time that they were descended from old Adam.

W. M. E.

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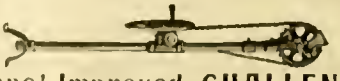
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Send for price list and samples and we know you will give us an order.
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Write for Catalogue and Price List.
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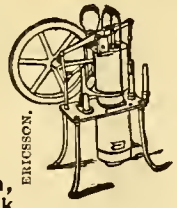
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PUMPING ENGINE.



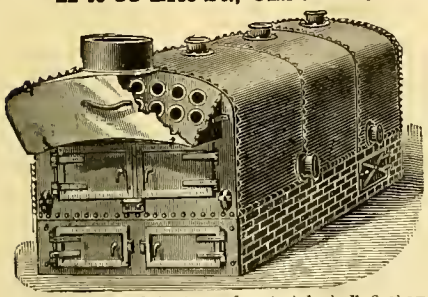
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Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.



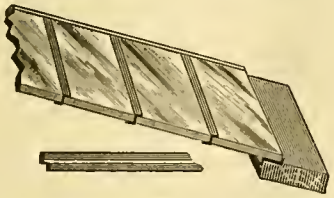
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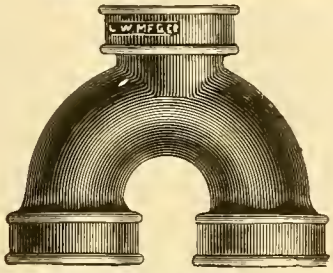
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Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

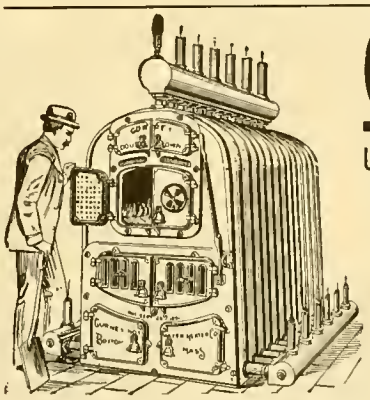
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Sizes, ⅛-inch to 42 inches diameter.

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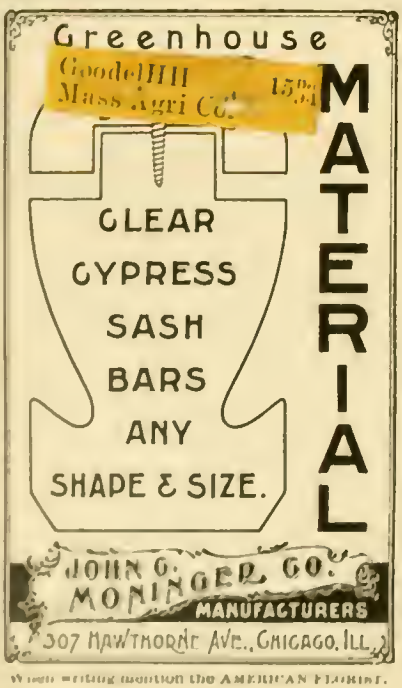
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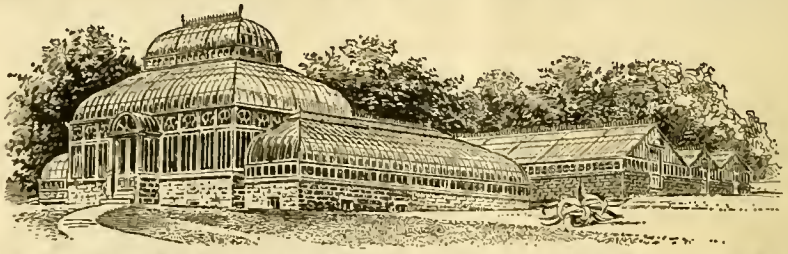
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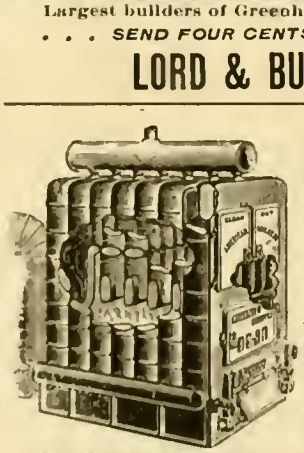
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